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# 1983–84 LP-GAS MARKET FACTS

## NATIONAL LP-GAS ASSOCIATION

PRODUCTION / TRANSPORTATION / STORAGE / IMPORT / EXPORT / SALES / EQUIPMENT / UTILIZATION

# 1983-84 LP-GAS INDUSTRY MARKET FACTS

DEVELOPED BY STATISTICAL AND MARKET RESEARCH COMMITTEE
NATIONAL LP-GAS ASSOCIATION
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## ABOUT THIS REPORT

The LP-gas production data in this report are extracted from EIA-0109 "Petroleum Supply Annual" published by the Energy Information Administration (EIA), U.S. Department of Energy. The information in EIA-0109 is reported to EIA by companies operating natural gas liquids processing plants and petroleum refineries.

A project to survey refiners, operators of natural gas processing plants, LP-gas dealers and importers was organized under the joint sponsorship of the American Petroleum Institute, the National LP-Gas Association and the Gas Processors Association. This project reported a survey of LP-gas users for 1984, using the same process of reporting the survey data used by EIA in the LP-gas sales reports published through 1978.

EIA reports of LP-gas sales for 1979-1982 have been found to be incomplete and are not included in the 1984 edition of LP-gas Market Facts. NLPGA estimated LP-gas sales for the respective uses in each state for the period 1979-1983 to re-establish a reliable data line for use in market research and other related applications. The procedure adopted for the years 1979-83 utilized EIA state LP-gas consumption data for the period 1979-82, wholesale deliveries of LP-gas to the respective states as reported in "Petroleum Supply Monthly" published by EIA for the years 1979-83, and generally accepted market research techniques.

**Distribution**

One copy available to each member as a service of the National LP-Gas Association. Additional copies to members $3.50 each. Copies to NLPGA non-members $7.00 each. Order from National LP-Gas Association, 1301 W. 22nd Street, Oak Brook, Illinois 60521.

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# LP-GAS, THE INDUSTRY IN BRIEF

## WHAT IS LP-GAS?

The "LP" in LP-gas stands for Liquefied Petroleum, and it simply means that the gas is derived from petroleum products and sold in compressed, or liquefied form. The makeup of the gas can vary, but the most common forms include propane, butane, and propane/butane mixes. Propane is by far the predominant type of fuel. Liquefying the gas provides a highly efficient and safe method of storing and transporting the product: the fluid occupies a mere 1/270th the space of the gas, which returns to its natural state when released to the atmosphere under normal pressure. Energy content of propane, as measured in British Thermal Units, is 91,500 BTU per gallon, or about 2,500 per cubic foot.

In the United States, about 65% of LP-gas is extracted from natural gas, while 35% is refined from crude oil. Like natural gas, LP-gas is odorless, and an artificial smell is added. It is also heavier than air, clean-burning, and combustion produces negligible pollutants.

## USES OF LP-GAS

This fuel is one of the country's most versatile sources of energy. It is both portable and easy to regulate. Its most common use is as a straight source of heat. It cooks food, warms homes, dries clothes, heats water, and barbecues for homeowners located in suburban, small town, and rural areas. It can also power refrigerators and air conditioners. Portable LP-gas brings city comfort to families everywhere. It can do anything in the wilderness that it can do at home, and LP-gas has long been a major comfort for campers.

LP-gas is also a staple on farms, where it's used for crop drying, flame weeding, tobacco curing, defoliation, poultry and pig brooding, stock tank heating, and frost protection. It also powers trucks, pumps, standby generators, and other farm equipment.

Commercial establishments, such as hotels, motels, and restaurants, use LP-gas much like the homeowner. Industry relies on it for brazing, soldering, cutting, heat-treating, annealing, vulcanizing, and many other uses.

As an engine fuel, its minimal emissions allow it to be used indoors, which explains its wide popularity in fork-lift trucks. This same feature makes it a desirable fuel in congested areas, as the many fleets of city buses, taxis and delivery trucks will attest. Gasoline engines convert easily to LP-gas, efficiency improves, and engine life is increased.

## THE MARKET

LP-gas ranks fourth in supplying the nation's energy needs. The industry serves about eighteen million customers, including homes, farms, individuals, businesses, and government groups. LP-gas is essentially a rural fuel, and roughly 1½ million farms, or about half of them, depend on the fuel for a variety of uses. A rough calculation of the market shows approximately 60 million people dependent on LP-gas for one use or another.

## THE INDUSTRY'S ASSETS

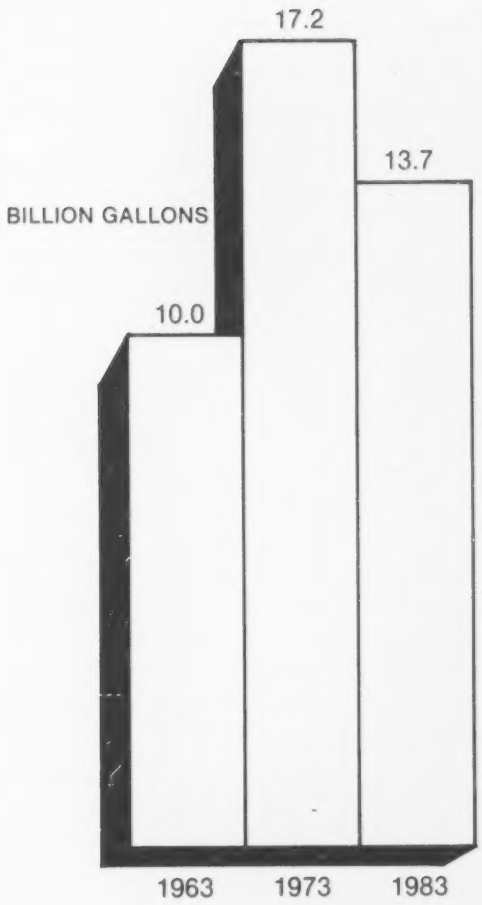
The distribution of LP-gas requires the effort of more than 86,000 people in the United States. Capital investment in excess of $7.5 billion includes 70,000 miles of cross-country pipelines, 25,000 transport and delivery trucks, 22,000 railroad tank cars, 250 primary storage facilities with capacity of seven billion gallons, a fleet of 370 barges and tankers, 8,000 bulk storage and distribution points, and 25,000 retail outlets.

Behind this vast network is the multi-billion dollar complex of petroleum refining and natural gas producing industries operated by LP-gas suppliers. More than 200 oil and gas companies produce LP-gas and distribute it in a number of ways. Some of them maintain their own LP-gas retail outlets, some sell on contract to established LP-gas marketers, and some of the gas finds its way to the open market through brokers.

## WHAT IS NLPGA?

The National LP-Gas Association is a trade association offering a full range of services, and represents all segments of the liquefied petroleum gas industry. Included are producers of LP-gas, wholesale and retail marketers, gas appliance and equipment manufacturers and distributors, tank and cylinder fabricators, transport firms and others. NLPGA has nearly 4,000 members throughout the U.S. and 29 other countries. Forty-six regional and state LP-gas associations are affiliated with the national organization.

## LP-GAS PRODUCTION




Source: Energy Information Administration

## TOTAL ANNUAL PRODUCTION

| YEAR | GALLONS* |
|---|---|
| 1956 | 6,784,470,000 |
| 1957 | 6,947,640,000 |
| 1958 | 7,463,232,000 |
| 1959 | 8,926,764,000 |
| 1960 | 9,546,222,000 |
| 1961 | 9,824,136,000 |
| 1962 | 10,807,230,000 |
| 1963 | 9,951,018,000 |
| 1964 | 12,371,310,000 |
| 1965 | 12,898,746,000 |
| 1966 | 13,605,312,000 |
| 1967 | 12,656,868,000 |
| 1968 | 12,467,406,000 |
| 1969 | 15,683,220,000 |
| 1970 | 15,248,478,000 |
| 1971 | 15,498,336,000 |
| 1972 | 17,373,258,000 |
| 1973 | 17,191,356,000 |
| 1974 | 16,317,126,000 |
| 1975 | 15,199,674,000 |
| 1976 | 16,013,046,000 |
| 1977 | 15,487,500,000 |
| 1978 | 15,023,064,000 |
| 1979 | 16,431,660,000 |
| 1980 | 14,968,884,000 |
| 1981 | 14,395,248,000 |
| 1982 | 13,915,272,000 |
| 1983 | 13,687,758,000 |
| 1984 | 15,129,114,000 |

*Figures prior to 1966 include an undisclosed amount of ethane production.

## PRODUCTION OF LP-GAS 1982
*(thousands of gallons)*

| | Supply | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|
| Month | Natural Gas Liquids | Liquified Refinery Gases | Imports* | Stock Withdrawals or (Additions) | Refinery Inputs | Exports* | LP-Gas Available to Market | Ending* Stock |
| January | 1,025,556 | 343,350 | 223,566 | 634,956 | 406,224 | 153,846 | 1,667,358 | 2,846,886 |
| February | 939,666 | 319,116 | 155,778 | 207,312 | 285,222 | 88,914 | 1,247,736 | 2,639,574 |
| March | 964,194 | 375,018 | 134,274 | (9,198) | 252,294 | 165,312 | 1,046,682 | 2,648,772 |
| April | 977,466 | 394,632 | 116,886 | (197,862) | 245,910 | 146,454 | 898,758 | 2,846,634 |
| May | 989,436 | 409,248 | 112,728 | (313,194) | 266,238 | 109,830 | 822,150 | 3,159,828 |
| June | 999,096 | 431,718 | 125,202 | (424,956) | 253,218 | 73,878 | 803,964 | 3,584,784 |
| July | 1,007,832 | 446,208 | 89,670 | (333,480) | 279,258 | 69,804 | 861,168 | 3,918,264 |
| August | 973,560 | 427,896 | 116,382 | (274,176) | 294,462 | 38,010 | 911,190 | 4,192,440 |
| September | 981,372 | 433,608 | 115,668 | 7,182 | 294,168 | 108,738 | 1,134,924 | 4,185,258 |
| October | 1,023,624 | 421,680 | 161,070 | (36,414) | 346,248 | 41,454 | 1,182,258 | 4,221,672 |
| November | 1,063,608 | 405,300 | 131,754 | 188,160 | 452,256 | 41,160 | 1,295,406 | 4,033,512 |
| December | 1,041,180 | 379,218 | 194,208 | 758,184 | 470,274 | 86,352 | 1,816,164 | 3,275,328 |
| **TOTAL** | **11,986,590** | **4,786,992** | **1,677,186** | **206,514** | **3,845,772** | **1,123,752** | **13,687,758** | **3,275,328** |

Source: Energy Information Administration

## PRODUCTION OF LP-GAS 1982
*(thousands of gallons)*

| | Supply | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|
| Month | Natural Gas Liquids | Liquified Refinery Gases | Imports* | Stock Withdrawals or (Additions) | Refinery Inputs | Exports* | LP-Gas Available to Market | Ending* Stock |
| January | 1,051,008 | 392,490 | 226,464 | 619,626 | 440,832 | 30,240 | 1,818,516 | 3,012,492 |
| February | 1,017,492 | 389,886 | 166,278 | 149,058 | 391,608 | 43,764 | 1,287,342 | 2,863,518 |
| March | 1,060,584 | 457,632 | 163,884 | 48,426 | 371,826 | 74,760 | 1,283,940 | 2,815,092 |
| April | 1,042,650 | 453,978 | 123,186 | (186,564) | 315,672 | 60,774 | 1,056,804 | 3,001,656 |
| May | 1,070,454 | 479,220 | 143,640 | (310,044) | 315,210 | 47,334 | 1,020,726 | 3,311,700 |
| June | 1,027,132 | 489,110 | 125,034 | (258,426) | 296,352 | 59,724 | 1,026,774 | 3,570,126 |
| July | 1,068,480 | 486,654 | 89,670 | (202,986) | 299,166 | 49,014 | 1,093,638 | 3,773,112 |
| August | 1,074,528 | 475,104 | 131,922 | (137,046) | 311,556 | 37,842 | 1,195,110 | 3,910,158 |
| September | 1,041,012 | 410,340 | 137,718 | (75,432) | 354,984 | 32,970 | 1,125,684 | 3,985,590 |
| October | 1,089,208 | 414,580 | 192,906 | 200,844 | 417,878 | 66,444 | 1,413,216 | 3,784,746 |
| November | 1,082,424 | 404,250 | 233,940 | 194,334 | 471,366 | 59,682 | 1,383,900 | 3,590,412 |
| December | 1,115,856 | 403,032 | 238,980 | 210,630 | 452,088 | 92,946 | 1,423,464 | 3,379,782 |
| **TOTAL** | **12,740,828** | **5,256,276** | **1,973,622** | **252,420** | **4,438,538** | **655,494** | **15,129,114** | **3,379,782** |

Source: Energy Information Administration

## ANNUAL PRODUCTION, BY TYPE OF GAS, 1967-84

*(thousands of gallons)*

| | PROPANE | BUTANE | BUTANE-PROPANE MIXTURE | ISO-BUTANE | TOTAL PRODUCTION | DAILY AVERAGE PRODUCTION |
|---|---|---|---|---|---|---|
| 1967 | 9,478,644 | 2,400,678 | 720,132 | 56,574 | 12,656,028 | 34,674 |
| 1968 | 10,637,424 | 2,617,734 | 582,330 | 47,250 | 13,884,738 | 38,040 |
| 1969 | 12,019,014 | 3,252,102 | 339,822 | 72,282 | 15,683,220 | 42,968 |
| 1970 | 11,891,040 | 3,058,734 | 235,788 | 62,916 | 15,248,478 | 41,777 |
| 1971 | 12,168,156 | 2,964,024 | 289,506 | 76,650 | 15,498,336 | 42,461 |
| 1972 | 13,726,272 | 3,245,004 | 314,328 | 87,654 | 17,373,258 | 47,598 |
| 1973 | 13,364,232 | 3,433,164 | 286,860 | 107,100 | 17,191,356 | 47,100 |
| 1974 | 12,728,562 | 3,147,480 | 303,786 | 137,298 | 16,317,126 | 44,704 |
| 1975 | 12,006,834 | 2,825,172 | 274,218 | 93,450 | 15,196,674 | 41,635 |
| 1976 | 12,761,532 | 2,886,156 | 254,562 | 110,796 | 16,013,046 | 43,871 |
| 1977 | 12,592,566 | 2,341,122 | 451,584 | 102,228 | 15,487,500 | 42,432 |
| 1978 | 11,922,078 | 2,471,826 | 537,558 | 91,602 | 15,023,064 | 41,159 |
| 1979 | 13,053,978 | 2,885,274 | 435,624 | 56,784 | 16,431,660 | 45,018 |
| 1980 | 11,590,698 | 2,857,050 | 480,522 | 40,614 | 14,968,884 | 41,011 |
| 1981 | 11,848,116 | 2,056,656 | 441,462 | 49,014 | 14,395,248 | 39,439 |
| 1982 | 12,227,292 | 1,549,170 | 139,482 | (672) | 13,915,272 | 38,124 |
| 1983 | 11,505,858 | 1,904,700 | 265,062 | 12,138 | 13,687,758 | 37,501 |
| 1984 | 12,810,042 | 2,204,412 | (1) | 114,660 | 15,129,114 | 41,449 |

**Source: Energy Information Administration**

**(1) Beginning 1984, EIA separated B/P mixture into the two components for reporting purposes.**

## MONTHLY PRODUCTION, BY TYPE OF GAS*, 1983
*(thousands of gallons)*

| | PROPANE | BUTANE | B-P MIX | ISO-BUTANE | TOTAL |
|---|---|---|---|---|---|
| JANUARY | 1,375,122 | 252,714 | 38,766 | 756 | 1,667,358 |
| FEBRUARY | 1,062,852 | 146,706 | 38,052 | 126 | 1,247,736 |
| MARCH | 914,256 | 119,952 | 12,222 | 252 | 1,046,682 |
| APRIL | 817,908 | 76,986 | 3,024 | 840 | 898,758 |
| MAY | 668,388 | 114,828 | 38,598 | 336 | 822,150 |
| JUNE | 679,056 | 88,032 | 35,658 | 1,218 | 803,964 |
| JULY | 718,116 | 135,030 | 7,098 | 924 | 861,168 |
| AUGUST | 750,204 | 153,510 | 6,510 | 966 | 911,190 |
| SEPTEMBER | 938,364 | 182,028 | 12,726 | 1,806 | 1,134,924 |
| OCTOBER | 1,004,556 | 152,964 | 24,612 | 126 | 1,182,258 |
| NOVEMBER | 1,056,846 | 222,558 | 13,524 | 2,478 | 1,295,406 |
| DECEMBER | 1,520,190 | 259,392 | 34,272 | 2,310 | 1,816,164 |
| **TOTAL** | **11,505,858** | **1,904,700** | **265,062** | **12,138** | **13,687,758** |

## MONTHLY PRODUCTION, BY TYPE OF GAS*, 1984
*(thousands of gallons)*

| | PROPANE | BUTANE | ISO-BUTANE | TOTAL |
|---|---|---|---|---|
| JANUARY | 1,602,048 | 165,018 | 51,450 | 1,818,516 |
| FEBRUARY | 1,123,206 | 175,308 | (11,172) | 1,287,342 |
| MARCH | 1,123,878 | 142,632 | 17,430 | 1,283,940 |
| APRIL | 870,996 | 168,210 | 17,598 | 1,056,804 |
| MAY | 843,696 | 180,432 | (3,402) | 1,020,726 |
| JUNE | 818,160 | 239,652 | (31,038) | 1,026,774 |
| JULY | 889,644 | 203,280 | 714 | 1,093,638 |
| AUGUST | 980,490 | 211,806 | (2,814) | 1,195,110 |
| SEPTEMBER | 961,590 | 172,368 | (8,274) | 1,125,684 |
| OCTOBER | 1,185,660 | 230,160 | (2,604) | 1,413,216 |
| NOVEMBER | 1,178,394 | 160,104 | 45,402 | 1,383,900 |
| DECEMBER | 1,232,280 | 155,442 | 35,742 | 1,423,464 |
| **TOTAL** | **12,810,042** | **2,204,412** | **114,660** | **15,129,114** |

**Propane includes propylene; butane includes butylenes.*
**Source: Energy Information Administration**

## LP-GAS UNDERGROUND BULK STORAGE CAPACITIES, U.S., 1985-1983

*(thousands of gallons)*

| | 1985 | | | | 1983 | | | |
|---|---|---|---|---|---|---|---|---|
| | Propane | Butanes | Other[1] | Total | Propane | Butanes | Other[1] | Total |
| Alabama | 14,994 | — | — | 14,994 | 15,330 | — | — | 15,330 |
| Alaska | — | — | — | — | — | — | — | — |
| Arizona | 103,320 | 77,700 | — | 181,020 | 210,000 | 67,200 | — | 277,200 |
| Arkansas | — | — | — | — | — | — | — | — |
| California | — | — | — | — | — | — | — | — |
| Colorado | — | — | — | — | — | — | — | — |
| Connecticut | — | — | — | — | — | — | — | — |
| Delaware | — | — | — | — | — | — | — | — |
| Florida | — | — | — | — | — | — | — | — |
| Georgia | 9,240 | — | — | 9,240 | 10,920 | — | — | 10,920 |
| Hawaii | — | — | — | — | — | — | — | — |
| Idaho | — | — | — | — | — | — | — | — |
| Illinois | 68,250 | 45,780 | — | 114,030 | 82,446 | 45,780 | — | 128,226 |
| Indiana | 54,600 | 44,184 | — | 98,784 | 34,902 | 45,064 | — | 79,966 |
| Iowa | 22,470 | 10,500 | — | 32,970 | 22,470 | 2,100 | — | 24,570 |
| Kansas | 1,755,180 | 560,868 | 261,534 | 2,577,582 | 2,143,042 | 587,622 | 18,060 | 2,748,724 |
| Kentucky | 25,074 | 3,360 | 1,050 | 29,484 | 25,074 | 3,360 | 1,050 | 29,484 |
| Louisiana | 996,324 | 658,140 | 1,369,578 | 3,024,042 | 974,736 | 763,854 | 918,120 | 2,656,710 |
| Maine | — | — | — | — | — | — | — | — |
| Md. & D.C. | 6,300 | — | — | 6,300 | 6,300 | — | — | 6,300 |
| Massachusetts | — | — | — | — | — | — | — | — |
| Michigan | 212,898 | 51,534 | 84,000 | 348,432 | 240,660 | 72,282 | — | 312,942 |
| Minnesota | 13,860 | — | — | 13,860 | 13,860 | — | — | 13,860 |
| Mississippi | 914,718 | 62,286 | 40,782 | 1,017,786 | 855,162 | 89,250 | — | 944,412 |
| Missouri | 44,982 | — | — | 44,982 | 44,982 | — | — | 44,982 |

*(Continued from the preceding page)*

| | 1983 | | | | 1985 | | | |
|---|---|---|---|---|---|---|---|---|
| | Propane | Butanes | Other[1] | Total | Propane | Butanes | Other[1] | Total |
| Montana | — | — | — | — | — | — | — | — |
| Nebraska | 31,710 | — | — | 31,710 | 31,710 | — | — | 31,710 |
| Nevada | — | — | — | — | — | — | — | — |
| New Hampshire | — | — | — | — | — | — | — | — |
| New Jersey | 9,660 | 10,500 | — | 20,160 | 9,660 | 10,500 | — | 20,160 |
| New Mexico | 38,304 | 2,646 | — | 40,950 | 30,618 | 2,646 | — | 33,264 |
| New York | 98,196 | — | — | 98,196 | 212,688 | — | — | 212,688 |
| North Carolina | — | — | — | — | — | — | — | — |
| North Dakota | — | — | — | — | — | — | — | — |
| Ohio | 256,158 | 44,100 | 6,426 | 306,684 | 255,822 | 44,226 | 6,426 | 306,474 |
| Oklahoma | 87,444 | 36,792 | 21,504 | 145,740 | 87,528 | 10,752 | 10,752 | 109,032 |
| Oregon | — | — | — | — | — | — | — | — |
| Pennsylvania | 52,920 | 44,730 | 3,150 | 100,800 | 44,100 | 32,130 | 19,950 | 96,180 |
| Rhode Island | — | — | — | — | — | — | — | — |
| South Carolina | 80,010 | — | — | 80,010 | 80,010 | — | — | 80,010 |
| South Dakota | — | — | — | — | — | — | — | — |
| Tennessee | — | — | — | — | — | — | — | — |
| Texas | 2,594,508 | 2,078,412 | 2,267,412 | 6,940,332 | 2,589,888 | 2,868,432 | 1,843,800 | 7,302,120 |
| Utah | 8,400 | — | — | 8,400 | 8,400 | — | — | 8,400 |
| Vermont | — | — | — | — | — | — | — | — |
| Virginia | — | — | — | — | — | — | 11,718 | 11,718 |
| Washington | — | — | — | — | — | — | — | — |
| West Virginia | 21,000 | — | — | 21,000 | 21,000 | — | — | 21,000 |
| Wisconsin | — | — | — | — | — | — | — | — |
| Wyoming | — | — | — | — | — | — | — | — |
| **TOTAL CAPACITY** | **7,520,520** | **3,731,532** | **4,055,436** | **15,307,488** | **8,051,308** | **4,645,198** | **2,829,876** | **15,526,382** |

**[1]Other includes B-P mixes and LP-Gas not otherwise identified.**
**Source: Gas Processors Association**

## SALES OF LP-GAS, BY PRINCIPAL USES, 1979-84
*(thousands of gallons)*

| Year | Residential and Commercial | Industrial (1) | Engine Fuel | Chemical | Utility Gas | Farm | Other (2) | TOTAL |
|---|---|---|---|---|---|---|---|---|
| 1979 | 6,870,505 | 1,940,100 | 1,045,100 | 4,042,886 | 561,000 | 1,764,444 | 207,625 | 16,431,660 |
| 1980 | 6,530,500 | 1,547,991 | 1,090,400 | 3,583,606 | 529,999 | 1,529,371 | 157,017 | 14,968,884 |
| 1981 | 6,310,300 | 1,380,000 | 1,130,000 | 3,474,237 | 490,000 | 1,462,839 | 147,872 | 14,395,248 |
| 1982 | 6,180,300 | 1,310,000 | 1,240,000 | 3,362,186 | 410,000 | 1,285,236 | 127,550 | 13,915,272 |
| 1983 | 6,090,000 | 1,220,000 | 1,362,000 | 3,243,802 | 370,000 | 1,182,578 | 219,378 | 13,687,758 |
| 1984 | 5,202,876 | 1,887,945 | 951,089 | 4,109,321 | 921,144 | 1,663,387 | 393,142 | 15,128,904* |

*See footnote 4, pg. 23
(1) Includes Refinery Fuel.
(2) Includes secondary recovery of petroleum and systhetic natural gas feed stock.

**Source: NLPGA and API**

## SALES OF LP-GAS BY STATES, 1979-84
*(thousands of gallons)*

| | 1979 (1) | 1980 (1) | 1981 (1) | 1982 (1) | 1983 (1) | 1984 (2) |
|---|---|---|---|---|---|---|
| Alabama | 181,362 | 227,731 | 236,176 | 213,548 | 206,881 | 178,075 |
| Alaska | 18,887 | 21,897 | 21,925 | 36,139 | 24,783 | W |
| Arizona | 53,548 | 75,241 | 72,553 | 73,127 | 73,890 | 66,727 |
| Arkansas | 226,485 | 234,582 | 182,832 | 193,913 | 190,425 | 168,904 |
| California | 630,715 | 511,451 | 621,623 | 625,100 | 638,197 | 739,859 |
| Colorado | 179,467 | 218,505 | 194,561 | 225,710 | 167,763 | 103,705 |
| Connecticut | 63,164 | 57,593 | 61,695 | 59,244 | 54,967 | 51,282 |
| Delaware | 33,499 | 39,536 | 42,563 | 39,365 | 43,007 | 49,652 |
| Florida | 413,065 | 412,424 | 434,344 | 378,633 | 396,833 | 347,271 |
| Georgia | 227,680 | 298,846 | 324,803 | 283,259 | 288,293 | 263,364 |
| Hawaii | 25,693 | 33,010 | 27,108 | 37,757 | 23,140 | W |
| Idaho | 38,267 | 41,554 | 34,717 | 44,525 | 39,089 | 31,815 |
| Illinois | 1,020,727 | 727,808 | 655,106 | 613,051 | 624,976 | 794,996 |
| Indiana | 375,259 | 313,052 | 301,838 | 282,080 | 321,871 | 357,416 |
| Iowa | 507,110 | 385,266 | 357,245 | 408,322 | 441,185 | 528,416 |
| Kansas | 293,652 | 234,229 | 236,421 | 273,425 | 345,937 | 756,234 |
| Kentucky | 207,041 | 253,853 | 235,841 | 218,674 | 214,026 | 260,962 |
| Louisiana | 428,262 | 306,133 | 248,899 | 202,029 | 236,384 | 982,522 |
| Maine | 75,714 | 37,827 | 34,072 | 38,113 | 33,096 | 22,935 |
| Maryland & D.C. | 72,555 | 82,866 | 93,723 | 77,805 | 89,809 | 96,840 |
| Massachusetts | 85,203 | 88,995 | 121,024 | 105,076 | 88,042 | 65,990 |
| Michigan | 335,735 | 309,661 | 278,640 | 327,955 | 431,990 | 484,763 |
| Minnesota | 291,692 | 281,711 | 264,838 | 297,694 | 313,466 | 333,725 |
| Mississippi | 245,488 | 236,291 | 225,792 | 233,627 | 225,201 | 218,242 |
| Missouri | 599,948 | 465,742 | 407,099 | 455,980 | 411,025 | 340,805 |

*(Continued from the preceding page)*

| | 1979 (1) | 1980 (1) | 1981 (1) | 1982 (1) | 1983 (1) | 1984 (2) |
|---|---|---|---|---|---|---|
| Montana | 432,677 | 79,987 | 54,940 | 77,359 | 62,941 | 49,258 |
| Nebraska | 153,411 | 179,335 | 166,829 | 180,572 | 156,875 | 149,236 |
| Nevada | 32,926 | 35,936 | 33,836 | 38,652 | 40,072 | 36,366 |
| New Hampshire | 60,786 | 59,892 | 56,732 | 64,583 | 59,096 | 50,017 |
| New Jersey | 147,718 | 139,002 | 141,364 | 124,038 | 111,901 | 264,907 |
| New Mexico | 146,240 | 152,380 | 108,945 | 154,427 | 158,873 | 153,130 |
| New York | 226,606 | 289,028 | 264,125 | 245,749 | 262,584 | 208,193 |
| North Carolina | 318,770 | 303,397 | 303,417 | 275,717 | 282,743 | 299,367 |
| North Dakota | 65,878 | 53,288 | 73,781 | 66,273 | 47,613 | 31,464 |
| Ohio | 1,077,833 | 1,001,818 | 955,760 | 867,725 | 662,365 | 504,464 |
| Oklahoma | 275,710 | 266,389 | 284,961 | 260,694 | 249,347 | 272,150 |
| Oregon | 69,649 | 63,949 | 70,612 | 64,582 | 68,683 | 60,694 |
| Pennsylvania | 272,624 | 288,386 | 248,850 | 222,513 | 225,533 | 239,876 |
| Rhode Island | 13,790 | 13,871 | 13,537 | 15,699 | 15,338 | 12,962 |
| South Carolina | 132,337 | 136,762 | 143,156 | 127,860 | 125,485 | 108,489 |
| South Dakota | 120,946 | 124,175 | 89,727 | 101,433 | 88,814 | 69,586 |
| Tennessee | 115,292 | 146,307 | 79,904 | 116,009 | 138,024 | 137,847 |
| Texas | 1,382,745 | 1,461,685 | 1,419,233 | 1,048,020 | 1,000,960 | 4,066,334 |
| Utah | 35,722 | 38,806 | 48,817 | 71,663 | 66,121 | 62,630 |
| Vermont | 32,037 | 31,127 | 33,823 | 41,955 | 38,814 | 28,321 |
| Virginia | 148,523 | 143,117 | 140,183 | 132,161 | 113,591 | 157,263 |
| Washington | 68,165 | 72,585 | 83,450 | 83,408 | 96,114 | 92,533 |
| West Virginia | 40,105 | 38,037 | 36,676 | 26,978 | 22,178 | 15,031 |
| Wisconsin | 305,690 | 283,529 | 259,668 | 280,861 | 337,044 | 364,777 |
| Wyoming | 82,376 | 86,686 | 93,247 | 120,004 | 88,071 | 75,340 |
| Totals | 12,388,774 | 11,385,278 | 10,921,011 | 10,553,086 | 10,443,956 | 14,789,925 |

w - Data withheld to avoid disclosing reports for individual companies. These reports included in totals.
(1) Does not include chemical feedstock use.
(2) Does include chemical feedstock use. See footnote 3, pg. 23.

**Source: NLPGA and API**

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1979
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Alabama | 152,066 | 15,501 | 11,037 | 0 | 10,694 | 133 | 189,431 |
| Alaska | 3,119 | 15,501 | 0 | 0 | 233 | 199 | 19,052 |
| Arizona | 36,711 | 621 | 13,651 | 443 | 3,851 | 217 | 55,494 |
| Arkansas | 136,316 | 9,972 | 54,655 | 275 | 32,059 | 436 | 233,713 |
| California | 377,544 | 134,895 | 91,008 | 2,928 | 32,927 | 11,721 | 651,023 |
| Colorado | 131,020 | 13,484 | 17,058 | 10,625 | 8,971 | 5,257 | 186,415 |
| Connecticut | 41,282 | 6,208 | 13,850 | 2,637 | 271 | 1,105 | 65,353 |
| Delaware | 18,355 | 6,984 | 2,414 | 1,060 | 3,702 | 1,957 | 34,472 |
| Florida | 333,359 | 22,583 | 21,407 | 44,897 | 2,524 | 6,259 | 431,029 |
| Georgia | 152,060 | 21,555 | 24,863 | 3,585 | 31,002 | 2,678 | 235,743 |
| Hawaii | 18,863 | 0 | 3,208 | 1,851 | 2,771 | 0 | 26,693 |
| Idaho | 28,005 | 3,783 | 5,247 | 241 | 2,005 | 471 | 39,752 |
| Illinois | 389,151 | 69,785 | 48,415 | 220,138 | 309,572 | 4,588 | 1,041,649 |
| Indiana | 293,453 | 22,893 | 24,960 | 4,252 | 43,774 | 1,488 | 390,820 |
| Iowa | 380,736 | 22,874 | 7,212 | 12,752 | 103,830 | 182 | 527,586 |
| Kansas | 185,797 | 38,763 | 30,719 | 2,126 | 35,616 | 10,483 | 303,504 |
| Kentucky | 172,155 | 13,367 | 20,477 | 3,136 | 5,143 | 1,892 | 216,170 |
| Louisiana | 96,349 | 277,803 | 37,545 | 0 | 980 | 20,694 | 433,371 |
| Maine | 69,946 | 6,946 | 1,254 | 0 | 30 | 1,247 | 79,423 |
| Md. & D.C. | 46,360 | 12,087 | 5,340 | 3,641 | 5,056 | 2,529 | 75,013 |
| Massachusetts | 48,900 | 6,364 | 7,202 | 20,987 | 518 | 3,825 | 87,796 |
| Michigan | 258,556 | 22,834 | 41,464 | 595 | 23,623 | 2,374 | 349,446 |
| Minnesota | 229,244 | 23,262 | 8,174 | 4,163 | 38,256 | 749 | 303,848 |
| Mississippi | 170,851 | 7,722 | 39,813 | 1,515 | 31,803 | 2,844 | 254,548 |
| Missouri | 546,985 | 19,226 | 14,905 | 24,594 | 19,408 | 4,310 | 629,428 |

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1979
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Montana | 62,130 | 1,397 | 3,303 | 1,004 | 1,601 | 128 | 69,563 |
| Nebraska | 83,870 | 10,050 | 21,604 | 4,252 | 37,526 | 556 | 157,858 |
| Nevada | 30,327 | 1,474 | 2,268 | 11 | 305 | 149 | 34,534 |
| New Hampshire | 42,225 | 5,879 | 1,933 | 12,752 | 15 | 221 | 63,025 |
| New Jersey | 60,218 | 55,817 | 20,466 | 5,273 | 2,940 | 6,197 | 150,911 |
| New Mexico | 94,898 | 7,081 | 15,680 | 21,251 | 488 | 11,874 | 151,272 |
| New York | 141,530 | 54,265 | 19,075 | 13,475 | 5,066 | 691 | 234,102 |
| North Carolina | 201,105 | 23,921 | 13,682 | 4,050 | 84,734 | 1,942 | 329,434 |
| North Dakota | 56,155 | 601 | 878 | 5,464 | 4,850 | 907 | 68,855 |
| Ohio | 240,345 | 232,249 | 43,283 | 12,752 | 535,481 | 26,468 | 1,090,578 |
| Oklahoma | 142,481 | 27,918 | 45,144 | 51,472 | 15,897 | 353 | 283,265 |
| Oregon | 45,925 | 2,270 | 17,852 | 2,480 | 2,930 | 627 | 72,084 |
| Pennsylvania | 94,865 | 131,752 | 30,197 | 3,551 | 15,287 | 2,002 | 277,654 |
| Rhode Island | 8,270 | 2,251 | 2,268 | 398 | 240 | 801 | 14,228 |
| South Carolina | 109,762 | 5,587 | 9,522 | 1,481 | 8,732 | 3,073 | 138,157 |
| South Dakota | 82,637 | 1,494 | 11,194 | 4,252 | 21,221 | 4,530 | 125,328 |
| Tennessee | 89,094 | 13,794 | 12,334 | 1,060 | 2,792 | 942 | 120,016 |
| Texas | 463,342 | 511,607 | 145,842 | 21,251 | 225,752 | 39,995 | 1,407,789 |
| Utah | 24,087 | 3,492 | 1,871 | 2,126 | 2,351 | 3,072 | 36,999 |
| Vermont | 23,942 | 1,106 | 449 | 7,652 | 53 | 104 | 33,306 |
| Virginia | 102,806 | 15,152 | 16,368 | 2,238 | 11,905 | 5,505 | 153,974 |
| Washington | 42,806 | 1,940 | 21,709 | 129 | 3,388 | 463 | 70,435 |
| West Virginia | 31,487 | 3,880 | 3,773 | 1,868 | 570 | 196 | 41,774 |
| Wisconsin | 227,503 | 26,366 | 26,245 | 5,610 | 29,480 | 2,550 | 317,754 |
| Wyoming | 51,512 | 3,744 | 12,282 | 8,707 | 2,221 | 6,641 | 85,107 |
| Total | 6,870,505 | 1,940,100 | 1,045,100 | 561,000 | 1,764,444 | 207,625 | 12,388,774 |

(1) Includes refinery fuel.
(2) Includes secondary recovery of petroleum and synthetic natural gas feedstock.

**Source: NLPGA**

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1980
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utililty Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Alabama | 198,788 | 6,260 | 11,024 | 0 | 11,516 | 143 | 227,731 |
| Alaska | 7,967 | 13,762 | 0 | 0 | 91 | 77 | 21,897 |
| Arizona | 48,456 | 573 | 18,526 | 4,712 | 2,815 | 159 | 75,241 |
| Arkansas | 165,679 | 10,944 | 36,104 | 334 | 21,228 | 293 | 234,582 |
| California | 232,420 | 103,871 | 123,762 | 20,545 | 22,753 | 8,100 | 511,451 |
| Colorado | 172,275 | 10,650 | 13,543 | 13,066 | 5,922 | 3,049 | 218,505 |
| Connecticut | 43,950 | 5,650 | 3,489 | 3,026 | 292 | 1,186 | 57,593 |
| Delaware | 27,624 | 3,576 | 3,293 | 1,028 | 2,627 | 1,388 | 39,536 |
| Florida | 327,179 | 29,412 | 38,164 | 7,807 | 2,834 | 7,028 | 412,424 |
| Georgia | 231,963 | 14,536 | 17,981 | 1,203 | 30,527 | 2,636 | 298,846 |
| Hawaii | 25,861 | 0 | 2,770 | 2,263 | 2,116 | 0 | 33,010 |
| Idaho | 23,314 | 2,988 | 5,517 | 7,501 | 1,809 | 425 | 41,554 |
| Illinois | 298,966 | 49,319 | 42,176 | 81,905 | 251,712 | 3,730 | 727,808 |
| Indiana | 247,310 | 12,338 | 20,794 | 5,247 | 26,464 | 899 | 313,052 |
| Iowa | 287,015 | 9,427 | 8,134 | 0 | 80,553 | 137 | 385,266 |
| Kansas | 153,662 | 16,687 | 26,191 | 3,938 | 26,076 | 7,675 | 234,229 |
| Kentucky | 152,226 | 70,867 | 21,819 | 2,104 | 4,999 | 1,838 | 253,853 |
| Louisiana | 84,635 | 173,686 | 40,017 | 0 | 352 | 7,443 | 306,133 |
| Maine | 29,191 | 4,783 | 2,170 | 1,028 | 15 | 640 | 37,827 |
| Md. & D.C. | 58,187 | 6,316 | 6,281 | 7,596 | 2,990 | 1,496 | 82,866 |
| Massachusetts | 49,828 | 5,882 | 6,259 | 24,960 | 246 | 1,820 | 88,995 |
| Michigan | 249,008 | 10,836 | 30,432 | 2,602 | 15,251 | 1,532 | 309,661 |
| Minnesota | 216,160 | 12,663 | 16,029 | 991 | 35,179 | 689 | 281,711 |
| Mississippi | 162,479 | 16,997 | 36,103 | 1,044 | 18,054 | 1,614 | 236,291 |
| Missouri | 397,578 | 8,932 | 16,062 | 26,036 | 13,954 | 3,180 | 465,742 |

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1980
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Montana | 61,125 | 1,053 | 10,762 | 5,247 | 1,664 | 136 | 79,987 |
| Nebraska | 112,651 | 5,635 | 24,064 | 2,629 | 33,854 | 502 | 179,335 |
| Nevada | 31,542 | 1,517 | 2,508 | 16 | 237 | 116 | 35,936 |
| New Hampshire | 43,428 | 4,489 | 1,603 | 10,271 | 6 | 95 | 59,892 |
| New Jersey | 57,338 | 50,651 | 24,064 | 5,168 | 573 | 1,208 | 139,002 |
| New Mexico | 89,207 | 6,037 | 14,329 | 32,593 | 401 | 9,813 | 152,380 |
| New York | 198,788 | 49,242 | 18,689 | 17,151 | 4,539 | 619 | 289,028 |
| North Carolina | 210,021 | 17,353 | 11,940 | 4,913 | 57,845 | 1,325 | 303,397 |
| North Dakota | 37,681 | 3,684 | 2,726 | 4,611 | 3,863 | 723 | 53,288 |
| Ohio | 188,666 | 157,432 | 53,453 | 10,490 | 563,904 | 27,873 | 1,001,818 |
| Oklahoma | 129,826 | 8,947 | 55,820 | 52,073 | 19,295 | 428 | 266,389 |
| Oregon | 42,318 | 1,409 | 15,364 | 2,120 | 2,256 | 482 | 63,949 |
| Pennsylvania | 152,422 | 84,087 | 34,926 | 9,912 | 6,235 | 804 | 288,386 |
| Rhode Island | 8,490 | 1,641 | 2,104 | 514 | 258 | 864 | 13,871 |
| South Carolina | 111,410 | 5,372 | 7,894 | 1,818 | 7,595 | 2,673 | 136,762 |
| South Dakota | 86,007 | 650 | 16,345 | 5,205 | 13,159 | 2,809 | 124,175 |
| Tennessee | 119,247 | 7,570 | 14,382 | 1,076 | 3,015 | 1,017 | 146,307 |
| Texas | 452,434 | 500,438 | 155,274 | 120,457 | 198,003 | 35,079 | 1,461,685 |
| Utah | 25,730 | 851 | 3,435 | 5,246 | 1,551 | 1,993 | 38,806 |
| Vermont | 26,252 | 1,594 | 545 | 2,618 | 40 | 78 | 31,127 |
| Virginia | 111,149 | 8,452 | 11,198 | 1,415 | 7,455 | 3,448 | 143,117 |
| Washington | 46,236 | 1,548 | 21,752 | 159 | 2,543 | 347 | 72,585 |
| West Virginia | 29,191 | 2,539 | 3,358 | 2,316 | 471 | 162 | 38,037 |
| Wisconsin | 220,078 | 21,130 | 19,855 | 2,629 | 18,278 | 1,559 | 283,529 |
| Wyoming | 47,542 | 3,715 | 17,370 | 10,416 | 1,956 | 5,687 | 86,686 |
| Total | 6,530,500 | 1,547,991 | 1,090,400 | 529,999 | 1,529,371 | 157,017 | 11,385,278 |

(1) Includes refinery fuel.
(2) Includes secondary recovery of petroleum and synthetic natural gas feedstock.

**Source: NLPGA**

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1981
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utililty Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Alabama | 200,162 | 5,561 | 16,939 | 0 | 13,348 | 166 | 236,176 |
| Alaska | 12,305 | 9,508 | 0 | 0 | 60 | 52 | 21,925 |
| Arizona | 46,696 | 2,125 | 18,769 | 1,833 | 2,963 | 167 | 72,553 |
| Arkansas | 128,099 | 8,363 | 27,877 | 132 | 18,111 | 250 | 182,832 |
| California | 324,539 | 100,285 | 139,024 | 25,852 | 23,542 | 8,381 | 621,623 |
| Colorado | 154,034 | 9,398 | 13,357 | 10,180 | 5,011 | 2,581 | 194,561 |
| Connecticut | 43,541 | 6,389 | 3,367 | 6,937 | 288 | 1,173 | 61,695 |
| Delaware | 33,381 | 4,664 | 2,509 | 211 | 1,176 | 622 | 42,563 |
| Florida | 347,823 | 23,805 | 40,352 | 11,146 | 3,224 | 7,994 | 434,344 |
| Georgia | 246,543 | 12,917 | 27,210 | 6,643 | 28,987 | 2,503 | 324,803 |
| Hawaii | 20,950 | 0 | 2,757 | 897 | 2,504 | 0 | 27,108 |
| Idaho | 21,644 | 3,409 | 5,017 | 2,063 | 2,092 | 492 | 34,717 |
| Illinois | 311,729 | 41,814 | 46,906 | 29,570 | 221,800 | 3,287 | 655,106 |
| Indiana | 242,820 | 9,991 | 18,069 | 2,063 | 27,946 | 949 | 301,838 |
| Iowa | 265,348 | 8,418 | 9,040 | 6,178 | 68,145 | 116 | 357,245 |
| Kansas | 120,590 | 44,243 | 30,725 | 5,649 | 27,206 | 8,008 | 236,421 |
| Kentucky | 137,817 | 64,184 | 30,115 | 515 | 2,347 | 863 | 235,841 |
| Louisiana | 84,432 | 127,443 | 31,120 | 206 | 258 | 5,440 | 248,899 |
| Maine | 25,431 | 4,347 | 1,605 | 2,063 | 15 | 611 | 34,072 |
| Md. & D.C. | 67,268 | 9,591 | 5,627 | 7,016 | 2,814 | 1,407 | 93,723 |
| Massachusetts | 52,502 | 5,189 | 7,435 | 54,726 | 140 | 1,032 | 121,024 |
| Michigan | 218,147 | 14,656 | 29,120 | 2,063 | 13,316 | 1,338 | 278,640 |
| Minnesota | 196,440 | 12,544 | 19,176 | 1,480 | 34,522 | 676 | 264,838 |
| Mississippi | 154,034 | 24,247 | 31,120 | 309 | 14,762 | 1,320 | 225,792 |
| Missouri | 342,902 | 12,889 | 14,057 | 20,591 | 13,633 | 3,027 | 407,099 |

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1981
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Montana | 37,105 | 2,456 | 6,724 | 6,536 | 1,962 | 157 | 54,940 |
| Nebraska | 96,611 | 4,706 | 26,928 | 0 | 38,021 | 563 | 166,829 |
| Nevada | 29,722 | 1,477 | 2,407 | 5 | 151 | 74 | 33,836 |
| New Hampshire | 43,226 | 4,319 | 1,300 | 7,775 | 7 | 105 | 56,732 |
| New Jersey | 69,666 | 38,309 | 25,911 | 5,752 | 528 | 1,198 | 141,364 |
| New Mexico | 60,452 | 15,732 | 16,069 | 10,288 | 252 | 6,152 | 108,945 |
| New York | 196,566 | 36,529 | 20,476 | 5,017 | 4,872 | 665 | 264,125 |
| North Carolina | 205,149 | 16,091 | 17,899 | 6,658 | 56,329 | 1,291 | 303,417 |
| North Dakota | 48,148 | 2,815 | 15,458 | 2,063 | 4,462 | 835 | 73,781 |
| Ohio | 204,832 | 114,126 | 45,177 | 2,063 | 561,812 | 27,750 | 955,760 |
| Oklahoma | 139,205 | 18,230 | 42,669 | 63,719 | 20,679 | 459 | 284,961 |
| Oregon | 46,318 | 2,332 | 18,024 | 921 | 2,485 | 532 | 70,612 |
| Pennsylvania | 134,662 | 64,073 | 30,103 | 12,164 | 6,952 | 896 | 248,850 |
| Rhode Island | 8,961 | 1,504 | 2,011 | 211 | 196 | 654 | 13,537 |
| South Carolina | 114,974 | 5,023 | 8,972 | 2,092 | 8,946 | 3,149 | 143,156 |
| South Dakota | 68,277 | 607 | 6,995 | 2,063 | 9,712 | 2,073 | 89,727 |
| Tennessee | 56,540 | 7,742 | 11,583 | 813 | 2,412 | 814 | 79,904 |
| Texas | 460,146 | 435,211 | 169,827 | 139,831 | 181,978 | 32,240 | 1,419,233 |
| Utah | 28,270 | 1,946 | 6,023 | 4,120 | 3,667 | 4,791 | 48,817 |
| Vermont | 28,081 | 1,242 | 599 | 3,708 | 65 | 128 | 33,823 |
| Virginia | 102,795 | 10,060 | 12,690 | 3,066 | 7,913 | 3,659 | 140,183 |
| Washington | 50,104 | 4,319 | 26,973 | 64 | 1,751 | 239 | 83,450 |
| West Virginia | 29,027 | 2,153 | 4,147 | 911 | 326 | 112 | 36,676 |
| Wisconsin | 199,279 | 16,822 | 24,566 | 206 | 17,299 | 1,496 | 259,668 |
| Wyoming | 53,007 | 6,196 | 15,176 | 11,631 | 1,852 | 5,385 | 93,247 |
| Total | 6,310,300 | 1,380,000 | 1,130,000 | 490,000 | 1,462,839 | 147,872 | 10,921,011 |

(1) Includes refinery fuel.
(2) Includes secondary recovery of petroleum and synthetic natural gas feedstock.

**Source: NLPGA**

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1982
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Alabama | 172,987 | 5,240 | 22,915 | 0 | 12,253 | 153 | 213,548 |
| Alaska | 29,604 | 6,380 | 0 | 0 | 84 | 71 | 36,139 |
| Arizona | 46,414 | 3,576 | 15,860 | 4,833 | 2,313 | 131 | 73,127 |
| Arkansas | 124,780 | 6,576 | 45,569 | 353 | 16,409 | 226 | 193,913 |
| California | 334,787 | 102,612 | 137,277 | 18,312 | 23,682 | 8,430 | 625,100 |
| Colorado | 170,885 | 9,013 | 10,218 | 27,881 | 5,091 | 2,622 | 225,710 |
| Connecticut | 43,509 | 7,375 | 3,224 | 3,900 | 244 | 992 | 59,244 |
| Delaware | 28,429 | 5,895 | 1,339 | 123 | 1,949 | 1,630 | 39,365 |
| Florida | 290,598 | 20,253 | 49,872 | 9,733 | 2,350 | 5,827 | 378,633 |
| Georgia | 209,698 | 12,458 | 28,359 | 6,175 | 24,457 | 2,112 | 283,259 |
| Hawaii | 28,862 | 0 | 4,241 | 2,364 | 2,290 | 0 | 37,757 |
| Idaho | 24,536 | 3,943 | 7,775 | 5,433 | 2,298 | 540 | 44,525 |
| Illinois | 301,228 | 37,558 | 67,231 | 3,475 | 200,586 | 2,973 | 613,051 |
| Indiana | 216,743 | 8,502 | 27,788 | 5,434 | 22,837 | 776 | 282,080 |
| Iowa | 284,356 | 8,030 | 14,409 | 33,778 | 67,634 | 115 | 408,322 |
| Kansas | 121,937 | 70,439 | 33,343 | 14,211 | 25,878 | 7,617 | 273,425 |
| Kentucky | 114,830 | 61,884 | 38,663 | 234 | 2,239 | 824 | 218,674 |
| Louisiana | 64,522 | 94,359 | 34,906 | 627 | 344 | 7,271 | 202,029 |
| Maine | 30,469 | 4,218 | 1,736 | 1,086 | 14 | 590 | 38,113 |
| Md. & D.C. | 49,257 | 12,943 | 6,907 | 4,708 | 2,660 | 1,330 | 77,805 |
| Massachusetts | 53,830 | 4,847 | 6,795 | 38,634 | 116 | 854 | 105,076 |
| Michigan | 247,212 | 18,759 | 37,783 | 9,224 | 13,610 | 1,367 | 327,955 |
| Minnesota | 212,479 | 13,113 | 17,447 | 15,568 | 38,337 | 750 | 297,694 |
| Mississippi | 149,996 | 31,846 | 36,171 | 525 | 13,850 | 1,239 | 233,627 |
| Missouri | 363,958 | 17,004 | 16,467 | 46,496 | 9,865 | 2,190 | 455,980 |

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1982
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Montana | 55,561 | 3,799 | 9,263 | 5,434 | 3,057 | 245 | 77,359 |
| Nebraska | 108,402 | 4,113 | 24,217 | 2,716 | 40,524 | 600 | 180,572 |
| Nevada | 33,806 | 1,520 | 3,001 | 16 | 208 | 101 | 38,652 |
| New Hampshire | 45,054 | 4,415 | 1,240 | 13,748 | 8 | 118 | 64,583 |
| New Jersey | 63,348 | 29,711 | 23,126 | 6,322 | 493 | 1,038 | 124,038 |
| New Mexico | 81,333 | 24,956 | 12,437 | 27,173 | 335 | 8,193 | 154,427 |
| New York | 188,746 | 27,510 | 19,617 | 4,958 | 4,327 | 591 | 245,749 |
| North Carolina | 190,230 | 15,877 | 20,150 | 4,093 | 44,351 | 1,016 | 275,717 |
| North Dakota | 28,308 | 2,214 | 22,642 | 4,482 | 7,267 | 1,360 | 66,273 |
| Ohio | 199,191 | 82,884 | 48,185 | 373 | 510,897 | 26,195 | 867,725 |
| Oklahoma | 164,272 | 27,235 | 39,209 | 923 | 28,425 | 630 | 260,694 |
| Oregon | 46,105 | 3,249 | 10,317 | 2,172 | 2,256 | 483 | 64,582 |
| Pennsylvania | 134,112 | 50,225 | 30,206 | 369 | 6,733 | 868 | 222,513 |
| Rhode Island | 9,085 | 1,454 | 3,249 | 545 | 315 | 1,051 | 15,699 |
| South Carolina | 98,452 | 4,991 | 12,350 | 1,901 | 7,519 | 2,647 | 127,860 |
| South Dakota | 71,444 | 603 | 7,576 | 5,434 | 13,495 | 2,881 | 101,433 |
| Tennessee | 81,889 | 8,305 | 21,452 | 640 | 2,784 | 939 | 116,009 |
| Texas | 356,850 | 402,550 | 167,186 | 15,342 | 90,125 | 15,967 | 1,048,020 |
| Utah | 32,447 | 3,013 | 11,929 | 20,551 | 1,614 | 2,109 | 71,663 |
| Vermont | 31,396 | 1,009 | 831 | 8,424 | 99 | 196 | 41,955 |
| Virginia | 98,761 | 11,960 | 10,862 | 1,024 | 6,533 | 3,021 | 132,161 |
| Washington | 52,224 | 6,956 | 21,390 | 168 | 2,349 | 321 | 83,408 |
| West Virginia | 19,282 | 1,939 | 2,765 | 2,388 | 449 | 155 | 26,978 |
| Wisconsin | 212,046 | 14,017 | 32,426 | 2,716 | 18,091 | 1,565 | 280,861 |
| Wyoming | 62,050 | 8,672 | 18,079 | 24,981 | 1,592 | 4,630 | 120,004 |
| Total | 6,180,300 | 1,310,000 | 1,240,000 | 410,000 | 1,285,236 | 127,550 | 10,553,086 |

(1) Includes refinery fuel.
(2) Includes secondary recovery of petroleum and synthetic natural gas feedstock.

**Source: NLPGA**

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1983
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Alabama | 164,352 | 4,843 | 24,725 | 0 | 12,802 | 159 | 206,881 |
| Alaska | 19,868 | 3,428 | 1,129 | 0 | 193 | 165 | 24,783 |
| Arizona | 46,870 | 4,807 | 16,810 | 2,372 | 2,869 | 162 | 73,890 |
| Arkansas | 132,183 | 4,831 | 35,510 | 174 | 17,486 | 241 | 190,425 |
| California | 309,698 | 102,639 | 182,205 | 9,875 | 24,912 | 8,868 | 638,197 |
| Colorado | 127,692 | 8,381 | 11,166 | 13,801 | 4,438 | 2,285 | 167,763 |
| Connecticut | 38,812 | 8,113 | 3,699 | 2,579 | 348 | 1,416 | 54,967 |
| Delaware | 30,693 | 6,869 | 3,781 | 148 | 992 | 524 | 43,007 |
| Florida | 304,223 | 16,629 | 51,716 | 6,427 | 5,127 | 12,711 | 396,833 |
| Georgia | 215,405 | 11,663 | 30,002 | 5,754 | 23,444 | 2,025 | 288,293 |
| Hawaii | 17,469 | 0 | 2,842 | 1,162 | 1,667 | 0 | 23,140 |
| Idaho | 20,667 | 4,355 | 8,854 | 2,664 | 2,064 | 485 | 39,089 |
| Illinois | 302,993 | 32,964 | 89,279 | 8,314 | 188,631 | 2,795 | 624,976 |
| Indiana | 234,780 | 7,003 | 31,634 | 4,492 | 42,517 | 1,445 | 321,871 |
| Iowa | 278,021 | 7,503 | 18,618 | 19,092 | 117,750 | 201 | 441,185 |
| Kansas | 107,579 | 92,659 | 25,990 | 67,624 | 40,589 | 11,496 | 345,937 |
| Kentucky | 104,012 | 58,572 | 43,452 | 207 | 5,690 | 2,093 | 214,026 |
| Louisiana | 67,045 | 62,598 | 38,570 | 14,452 | 2,428 | 51,291 | 236,384 |
| Maine | 25,152 | 3,989 | 1,904 | 1,376 | 16 | 659 | 33,096 |
| Md. & D.C. | 56,650 | 15,714 | 7,630 | 5,187 | 3,085 | 1,543 | 89,809 |
| Massachusetts | 53,328 | 4,429 | 8,391 | 20,475 | 169 | 1,250 | 88,042 |
| Michigan | 327,166 | 22,070 | 53,239 | 5,369 | 21,941 | 2,205 | 431,990 |
| Minnesota | 216,880 | 13,359 | 22,889 | 8,244 | 51,094 | 1,000 | 313,466 |
| Mississippi | 136,919 | 38,027 | 35,882 | 255 | 12,959 | 1,159 | 225,201 |
| Missouri | 328,212 | 20,374 | 22,807 | 24,508 | 12,376 | 2,748 | 411,025 |

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1983
## OTHER THAN CHEMICAL
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total |
|---|---|---|---|---|---|---|---|
| Montana | 41,826 | 4,941 | 8,799 | 2,664 | 4,361 | 350 | 62,941 |
| Nebraska | 89,618 | 3,514 | 18,673 | 1,336 | 43,095 | 639 | 156,875 |
| Nevada | 33,338 | 1,537 | 4,322 | 7 | 583 | 285 | 40,072 |
| New Hampshire | 45,455 | 4,404 | 1,836 | 7,208 | 12 | 181 | 59,096 |
| New Jersey | 60,032 | 21,338 | 21,474 | 5,461 | 1,157 | 2,439 | 111,901 |
| New Mexico | 63,662 | 32,781 | 11,383 | 17,542 | 1,317 | 32,188 | 158,873 |
| New York | 185,388 | 18,849 | 22,264 | 5,476 | 26,931 | 3,676 | 262,584 |
| North Carolina | 192,216 | 15,360 | 20,454 | 2,054 | 51,479 | 1,180 | 282,743 |
| North Dakota | 20,113 | 1,635 | 13,913 | 2,198 | 8,217 | 1,537 | 47,613 |
| Ohio | 251,880 | 53,009 | 66,513 | 196 | 277,072 | 13,695 | 662,365 |
| Oklahoma | 155,187 | 34,807 | 31,525 | 1,891 | 25,374 | 563 | 249,347 |
| Oregon | 37,459 | 4,014 | 23,650 | 1,066 | 2,055 | 439 | 68,683 |
| Pennsylvania | 137,165 | 36,710 | 33,034 | 1,406 | 15,252 | 1,966 | 225,533 |
| Rhode Island | 9,595 | 1,403 | 3,182 | 270 | 205 | 683 | 15,338 |
| South Carolina | 97,614 | 4,856 | 13,070 | 969 | 6,639 | 2,337 | 125,485 |
| South Dakota | 63,662 | 598 | 6,229 | 3,515 | 12,205 | 2,605 | 88,814 |
| Tennessee | 94,355 | 8,650 | 29,648 | 648 | 3,535 | 1,188 | 138,024 |
| Texas | 364,934 | 364,339 | 137,315 | 59,288 | 63,784 | 11,300 | 1,000,960 |
| Utah | 35,922 | 3,904 | 12,743 | 10,231 | 1,440 | 1,881 | 66,121 |
| Vermont | 31,063 | 769 | 1,224 | 5,565 | 65 | 128 | 38,814 |
| Virginia | 53,144 | 13,444 | 12,322 | 696 | 10,266 | 23,719 | 113,591 |
| Washington | 41,826 | 9,187 | 41,806 | 85 | 2,824 | 386 | 96,114 |
| West Virginia | 15,869 | 1,708 | 2,462 | 1,547 | 440 | 152 | 22,178 |
| Wisconsin | 256,431 | 11,700 | 38,080 | 1,883 | 27,106 | 2,344 | 337,544 |
| Wyoming | 45,577 | 10,724 | 13,355 | 12,247 | 1,577 | 4,591 | 88,071 |
| Total | 6,090,000 | 1,220,000 | 1,362,000 | 370,000 | 1,182,578 | 219,378 | 10,443,956 |

(1) Includes refinery fuel.
(2) Includes secondary recovery of petroleum and synthetic natural gas feedstock.

**Source: NLPGA**

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1984

*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utilility Gas | Farm | Other (2) | Total (3,4) |
|---|---|---|---|---|---|---|---|
| Alabama | 131,792 | 7,140 | 17,062 | w | 21,542 | w | 178,075 |
| Alaska | w | 1,256 | w | 0 | w | w | w |
| Arizona | 40,186 | 9,354 | 11,383 | 0 | 5,494 | w | 66,727 |
| Arkansas | 118,529 | 5,213 | 14,758* | 0 | 29,839* | w | 168,904 |
| California | 241,190 | 193,002 | 150,378 | 2,565* | 42,134 | 13,271* | 739,859 |
| Colorado | 71,213* | 12,422* | 7,804 | w | 6,147 | 3,165 | 103,705 |
| Connecticut | 28,881 | 13,912 | 2,707 | 3,048 | 726 | 255* | 51,282* |
| Delaware | 27,929 | 12,246 | 427 | w | 6,555 | 1,856* | 49,652* |
| Florida | 269,668* | 21,305* | 34,220 | 7,596 | 12,593 | w | 347,271 |
| Georgia | 187,713 | 17,389 | 20,287 | w | 36,302 | 1,578* | 263,364* |
| Hawaii | w | 0 | w | 0 | w | 0 | w |
| Idaho | 14,232 | 7,486 | 6,439 | 0 | 2,962 | 696 | 31,815 |
| Illinois | 258,559* | 45,873 | 73,606 | 30,298* | 286,202 | 4,042* | 794,996 |
| Indiana | 214,628 | 8,981 | 23,004 | 8,374 | 99,447 | 2,982* | 357,416* |
| Iowa | 230,449 | 11,171 | 15,050 | w | 268,105 | 456 | 528,416* |
| Kansas | 78,977 | 178,443 | 10,810 | 278,165* | 88,422 | 26,021 | 756,234 |
| Kentucky | 105,427 | 88,305* | 30,675 | 427 | 14,553 | 353* | 260,962 |
| Louisiana | 59,112 | 54,549 | 27,291 | 65,043* | 7,151 | 28,785* | 982,522 |
| Maine | 12,054 | 6,026 | 1,334 | w | 27 | w | 22,935 |
| Md. & D.C. | 54,318* | 28,837 | 5,386 | w | 5,634 | 2,055* | 96,840* |
| Massachusetts | 44,786 | 6,454 | 6,531 | 7,027 | 353 | 568* | 65,990* |
| Michigan | 346,157 | 39,704 | 45,666 | w | 48,374 | 4,859 | 484,763* |
| Minnesota | 187,710 | 21,522 | 18,697 | 2,797 | 102,344 | 655* | 333,725* |
| Mississippi | 104,911 | 68,946 | 22,470 | 0 | 20,051* | 1,775* | 218,242 |
| Missouri | 247,827 | 37,095 | 19,335 | 7,849 | 23,922 | 4,777* | 340,805* |

## SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1984
*(thousands of gallons)*

| | Residential and Commercial | Industrial (1) | Engine Fuel | Utility Gas | Farm | Other (2) | Total (3,4) |
|---|---|---|---|---|---|---|---|
| Montana | 23,697 | 9,499* | 5,213 | 0* | 9,100 | 730 | 49,258 |
| Nebraska | 59,917 | 4,714 | 7,557 | w | 73,305 | 1,089 | 149,236 |
| Nevada | 27,849 | 2,481 | 3,760 | 0 | 1,530 | 746 | 36,366 |
| New Hampshire | 38,869 | 6,975 | 1,616 | 2,150 | 26 | w | 50,017 |
| New Jersey | 48,068 | 22,074* | 12,338 | w | 2,912 | 6,138 | 264,907 |
| New Mexico | 38,784 | 63,085 | 6,387 | w | 1,699 | 800* | 153,130 |
| New York | 154,395 | 17,615 | 13,343 | 13,964 | 7,863 | 870* | 208,193* |
| North Carolina | 164,793 | 23,652 | 13,204 | 203 | 94,136 | 1,530* | 299,367 |
| North Dakota | 10,062 | 1,780 | 2,095 | 0* | 14,764 | w | 31,464* |
| Ohio | 258,884 | 42,005* | 56,928 | 66* | 83,416 | 3,703* | 504,464 |
| Oklahoma | 123,493* | 66,011 | 14,070 | 6,594* | 36,265 | 577 | 272,150 |
| Oregon | 24,364 | 7,431* | 25,250 | 0 | 3,006 | 643 | 60,694* |
| Pennsylvania | 119,013 | 39,215 | 23,120 | 5,619 | 18,732 | 1,620* | 239,876* |
| Rhode Island | 8,482 | 2,118 | 1,969 | 0 | 16 | 377* | 12,962* |
| South Carolina | 82,116 | 7,518 | 8,837 | 169 | 9,377 | 235* | 108,489* |
| South Dakota | 47,269 | 930* | 2,909 | w | 17,721 | w | 69,586 |
| Tennessee | 90,770 | 14,229 | 25,100 | w | 6,840 | 717* | 137,847* |
| Texas | 316,487 | 526,120 | 63,127* | 237,383* | 62,105 | 11,004 | 4,066,334 |
| Utah | 33,469* | 7,420 | 8,694 | w | 2,057 | 2,625* | 62,630 |
| Vermont | 26,120 | 891 | 1,067 | w | 49 | w | 28,321 |
| Virginia | 90,690 | 23,448 | 8,928 | 885 | 22,538 | 10,398* | 157,263* |
| Washington | 26,559 | 17,679* | 42,235 | 0 | 5,332 | 728 | 92,533* |
| West Virginia | 10,512 | 2,405* | 1,318 | w | 726 | 25 | 15,031* |
| Wisconsin | 255,595 | 13,823 | 28,507 | 2,527 | 57,819 | 4,631* | 364,777 |
| Wyoming | 24,485* | 19,920 | 4,818 | 11,475 | 2,535 | 3,798* | 75,340 |
| Total | 5,202,876 | 1,887,945 | 951,089 | 921,144 | 1,663,387 | 393,142 | 14,789,925 |

* Propane only; butane withheld.

w - Data withheld to avoid disclosing reports for individual companies. These reports included in totals.

(1) Includes refinery fuel.

(2) Includes secondary recovery of petroleum and synthetic natural gas feedstock.

(3) Includes chemical use. Presence of withheld data did not permit placing this table on same basis as related tables for 1979-83. Confidentiality limitations did not permit placing the 1979-83 tables on the same basis as the 1984 table.

(4) 1984 LP-gas sales as reported by API differ from 1984 LP-gas production reported by EIA because API sources concluded that the EIA report understated butane used in refineries for gasoline production.

**Source: American Petroleum Institute**

## SALES OF LP-GAS, BY STATE AND TYPE OF GAS, 1984 (1)

*(thousands of gallons)*

| | Propane | Butane (2) |
|---|---|---|
| Alabama | 178,075 | 0 |
| Alaska | w | 0 |
| Arizona | 66,727 | 0 |
| Arkansas | 168,712 | 192 |
| California | 615,872 | 123,987 |
| Colorado | 101,590 | 2,115 |
| Connecticut | 51,282 | w |
| Delaware | 49,652 | w |
| Florida | 345,808 | 1,463 |
| Georgia | 263,364 | w |
| Hawaii | w | 0 |
| Idaho | 31,815 | 0 |
| Illinois | 777,731 | 17,265 |
| Indiana | 357,416 | w |
| Iowa | 528,416 | w |
| Kansas | 517,983 | 238,251 |
| Kentucky | 239,938 | 21,024 |
| Louisiana | 650,868 | 331,654 |
| Maine | 22,935 | 0 |
| Maryland & D.C. | 96,840 | w |
| Massachusetts | 65,990 | w |
| Michigan | 484,763 | w |
| Minnesota | 333,725 | w |
| Mississippi | 164,577 | 53,665 |
| Missouri | 340,805 | w |
| Montana | 48,239 | 1,019 |
| Nebraska | 149,236 | w |
| Nevada | 36,366 | 0 |
| New Hampshire | 50,017 | 0 |
| New Jersey | 200,121 | 64,786 |
| New Mexico | 112,652 | 40,478 |
| New York | 208,193 | w |
| North Carolina | 297,802 | 1,565 |
| North Dakota | 31,464 | w |
| Ohio | 503,212 | 1,252 |
| Oklahoma | 245,514 | 21,636 |
| Oregon | 60,694 | w |
| Pennsylvania | 239,876 | w |
| Rhode Island | 12,962 | w |
| South Carolina | 108,489 | w |
| South Dakota | 69,586 | w |
| Tennessee | 137,847 | w |
| Texas | 3,102,955 | 963,379 |
| Utah | 55,004 | 7,626 |
| Vermont | 28,321 | 0 |
| Virginia | 157,263 | w |
| Washington | 92,533 | w |
| West Virginia | 15,031 | w |
| Wisconsin | 364,777 | w |
| Wyoming | 67,794 | 9,546 |
| Total | 12,866,868 | 1,923,057 |

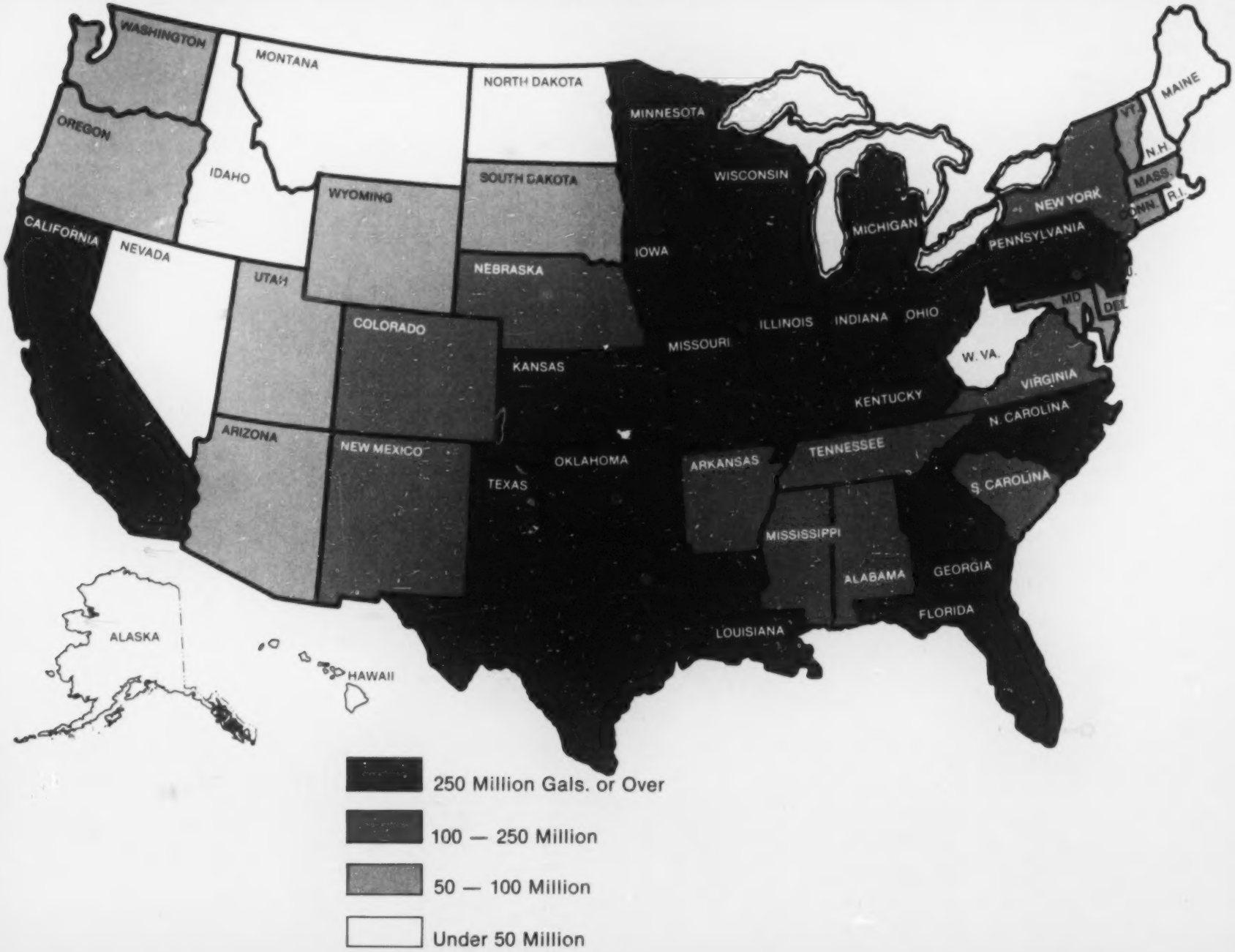
w - Data withheld to avoid disclosing reports for individual companies. These reports included in totals.

(1) Data for 1979-1983 not available.

(2) 1984 LP-gas sales reported by API differ from 1984 LP-gas production reported by EIA because API sources concluded that the EIA report understated butane used in refineries for gasoline production.

**Source: American Petroleum Institute**

## STATE SALES LEVELS



## UNITED STATES 1976-84 LP-GAS IMPORTS, BY P.A.D. DISTRICTS

*(thousands of gallons)*

| Petroleum Administration District | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---|---|---|---|---|---|---|---|---|---|
| I | 258,762 | 439,442 | 216,613 | 386,533 | 311,927 | 373,800 | 219,828 | 181,734 | 270,942 |
| II | 921,421 | 1,239,965 | 976,513 | 1,514,546 | 1,395,441 | 1,010,310 | 1,075,032 | 794,892 | 1,058,274 |
| III | 284,466 | 390,386 | 152,157 | 358,789 | 304,035 | 473,634 | 425,124 | 291,270 | 204,498 |
| IV | 247,296 | 235,322 | 183,772 | 193,353 | 202,379 | 220,164 | 247,548 | 190,764 | 226,968 |
| V | 284,382 | 180,512 | 199,158 | 214,858 | 192,324 | 216,384 | 240,450 | 218,526 | 213,066 |
| **Total United States** | **1,996,327** | **2,485,627** | **1,728,213** | **2,668,079** | **2,406,106** | **2,294,292** | **2,207,982** | **1,677,186** | **1,973,748** |

Source: Energy Information Administration

## CANADIAN LP-GAS SUPPLY AND DISPOSITION, 1983

*(thousands of gallons)*

| PROPANE | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|---|---|---|---|---|---|
| Gas Plant Production | 363,958 | 300,637 | 331,250 | 374,920 | 1,370,016 |
| Refinery Production | 90,806 | 78,501 | 96,444 | 99,848 | 366,558 |
| Imports | — | — | — | — | — |
| Domestic Purchases | 485,200 | 388,223 | 442,676 | 533,953 | 1,849,892 |
| Inventory Changes | 30,435 | 9,085 | 14,982 | 59,185 | 37,487 |
| Total | 970,399 | 776,446 | 885,352 | 1,067,906 | 3,623,952 |
| Plant & Refinery Use | 7,091 | 6,780 | 7,686 | 8,301 | 27,368 |
| Solvent Flood | 37,143 | 37,509 | 39,720 | 60,118 | 176,979 |
| Petrochemical Industry | 17,502 | 22,082 | 31,930 | 41,842 | 112,557 |
| Residential, commercial, industrial | 636,677 | 495,265 | 571,230 | 745,131 | 2,449,705 |
| Export | 254,552 | 184,403 | 145,102 | 191,944 | 775,121 |
| Losses & Adjustments | 4,666 | 7,151 | (5,662) | (2,917) | 7,248 |
| Total | 957,631 | 753,190 | 790,006 | 1,044,419 | 3,548,978 |

| BUTANE | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|---|---|---|---|---|---|
| Gas Plant Production | 220,391 | 187,264 | 206,052 | 230,512 | 844,219 |
| Refinery Production | 82,373 | 92,098 | 114,062 | 81,329 | 369,862 |
| Imports | — | — | — | — | — |
| Domestic Purchases | 278,282 | 231,976 | 291,759 | 296,311 | 1,098,328 |
| Inventory Changes | (27,639) | (43,086) | (30,120) | 45,153 | (55,692) |
| Total | 553,407 | 468,252 | 581,753 | 653,305 | 2,256,716 |
| Plant & Refinery Use | 36,902 | 16,834 | 28,136 | 40,119 | 121,990 |
| Solvent Flood | 21,841 | 20,108 | 21,302 | 21,059 | 84,311 |
| Petrochemical Industry | 82,988 | 73,066 | 110,024 | 128,078 | 394,156 |
| Residential, commercial, industrial | 255,937 | 234,180 | 281,821 | 291,999 | 1,063,938 |
| Export | 161,710 | 124,352 | 138,602 | 175,919 | 600,583 |
| Losses & Adjustments | (5,972) | (289) | 1,868 | (3,869) | (8,262) |
| Total | 553,406 | 468,251 | 581,753 | 653,305 | 2,256,716 |

Source: Statistics Canada

## CANADIAN LP-GAS SUPPLY AND DISPOSITION, 1984

*(thousands of gallons)*

| PROPANE | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|---|---|---|---|---|---|
| Gas Plant Production | 392,051 | 329,155 | 327,496 | 385,498 | 1,434,200 |
| Refinery Production | 98,025 | 87,356 | 97,233 | 99,162 | 381,776 |
| Imports | — | — | — | — | — |
| Domestic Purchases | 471,469 | 382,775 | 428,972 | 539,358 | 1,822,574 |
| Inventory Changes | (19,236) | (95,862) | (40,876) | 115,432 | (40,542) |
| Total | 942,309 | 703,424 | 812,825 | 1,139,450 | 3,598,008 |
| Plant & Refinery Use | 6,475 | 6,408 | 8,800 | 12,200 | 33,883 |
| Solvent Flood | 63,839 | 52,420 | 52,470 | 50,545 | 219,274 |
| Petrochemical Industry | — | — | — | — | — |
| Residential, commercial, industrial | 681,609 | 534,765 | 582,779 | 753,948 | 2,553,101 |
| Export | 211,123 | 113,157 | 183,349 | 312, 308 | 819,937 |
| Losses & Adjustments | (20,737) | (3,324) | (14,573) | 10,447 | (28,186) |
| Total | 942,309 | 703,426 | 812,825 | 1,139,448 | 3,598,009 |

| BUTANE | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|---|---|---|---|---|---|
| Gas Plant Production | 234,134 | 193,395 | 195,423 | 220,008 | 842,960 |
| Refinery Production | 82,528 | 88,776 | 99,456 | 79,502 | 350,262 |
| Imports | — | — | — | — | — |
| Domestic Purchases | 249,600 | 253,998 | 266,961 | 297,929 | 1,068,488 |
| Inventory Changes | 20,284 | (33,813) | (29,744) | 83,162 | 39,889 |
| Total | 586,546 | 502,356 | 532,095 | 680,601 | 2,301,599 |
| Plant & Refinery Use | 35,862 | 16,139 | 29,934 | 37,978 | 119,913 |
| Solvent Flood | 21,751 | 19,453 | 21,373 | 22,575 | 85,152 |
| Petrochemical Industry | 98,745 | 71,480 | 71,340 | 104,858 | 346,423 |
| Residential, commercial, industrial | 261,401 | 258,471 | 280,126 | 290,110 | 1,090,108 |
| Export | 172,812 | 130,242 | 131,542 | 223,454 | 658,050 |
| Losses & Adjustments | (4,024) | 6,572 | (2,220) | 1,625 | 1,953 |
| Total | 586,547 | 502,357 | 532,095 | 680,600 | 2,301,599 |

**Source: Statistics Canada**

## UNITED STATES LP-GAS IMPORTS, 1982-84
*(thousands of gallons)*

| BY COUNTRY | 1984 | 1983 | 1982 |
|---|---|---|---|
| Algeria | 50,598 | 8,730 | 25,761 |
| Australia | 39,468 | 23,290 | 22,412 |
| Canada | 1,543,776 | 1,299,859 | 1,708,218 |
| France | — | 6,316 | — |
| Indonesia | 59,939 | — | 68,188 |
| Japan | 28 | 4 | 15,190 |
| Mexico | 97,889 | 274,880 | 297,225 |
| Neth. Antilles | 5,269 | 14,589 | 3,689 |
| Netherlands | 1,800 | 7,456 | 6,283 |
| Peru | — | — | 3,068 |
| Saudi Arabia | 192,245 | 76,861 | 140,758 |
| United Kingdom | 49,035 | 10,236 | 43,372 |
| Venezuela | 44,975 | 32,349 | 88,746 |
| Others | 73,012 | 3,853 | 8,822 |
| TOTAL | 2,158,034 | 1,758,423 | 2,431,732 |

| BY MONTH | 1984 | 1983 | 1982 |
|---|---|---|---|
| January | 258,965 | 231,417 | 296,440 |
| February | 167,087 | 155,746 | 220,878 |
| March | 173,496 | 152,298 | 160,559 |
| April | 149,182 | 119,762 | 148,121 |
| May | 130,327 | 117,168 | 152,284 |
| June | 128,352 | 126,148 | 189,558 |
| July | 104,225 | 96,664 | 179,430 |
| August | 134,168 | 120,541 | 156,684 |
| September | 162,689 | 122,931 | 252,789 |
| October | 238,568 | 180,656 | 212,653 |
| November | 249,726 | 136,895 | 259,925 |
| December | 261,249 | 198,197 | 202,411 |
| TOTAL | 2,158,034 | 1,758,423 | 2,431,732 |

## UNITED STATES LP-GAS EXPORTS, 1982-84
*(thousands of gallons)*

| BY COUNTRY | 1984 | 1983 | 1982 |
|---|---|---|---|
| Canada | 272,742 | 357,594 | 363,839 |
| France | 1,569 | 33,597 | 45,893 |
| Japan | 248 | 153,467 | 415 |
| Mexico | 312,463 | 254,574 | 278,028 |
| Netherlands | 5,745 | 37,592 | 61,032 |
| Saudi Arabia | 106 | 55 | 3,604 |
| South Africa | 98 | — | 36 |
| West Germany | — | 17 | 34 |
| Others | 132,361 | 209,907 | 107,250 |
| TOTAL | 725,332 | 1,046,803 | 860,131 |

| BY MONTH | 1984 | 1983 | 1982 |
|---|---|---|---|
| January | 25,057 | 146,347 | 88,211 |
| February | 50,123 | 84,319 | 54,781 |
| March | 93,711 | 160,736 | 85,624 |
| April | 69,445 | 138,288 | 85,517 |
| May | 54,786 | 103,867 | 45,111 |
| June | 66,947 | 63,511 | 121,055 |
| July | 56,384 | 63,348 | 39,552 |
| August | 43,020 | 32,704 | 60,028 |
| September | 29,772 | 104,229 | 85,501 |
| October | 67,341 | 36,693 | 92,977 |
| November | 63,413 | 35,672 | 36,745 |
| December | 105,333 | 77,089 | 65,029 |
| TOTAL | 725,332 | 1,046,803 | 860,131 |

Source: Bureau of the Census

## QUARTERLY TANK SHIPMENTS
### 1973-84

| QUARTER | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| First | 92,244 | 53,448 | 18,582 | 25,595 | 33,121 | 27,980 | 34,649 | 65,934R | 71,944 | 53,572 | 33,248 | 35,693 |
| Second | 96,550 | 55,074 | 22,725 | 31,755 | 45,871 | 38,501 | 61,315 | 81,028R | 83,830 | 45,071 | 46,227 | 41,169 |
| Third | 80,204 | 44,583 | 31,952 | 38,123 | 44,742 | 39,617 | 69,005 | 81,412R | 85,869 | 48,469 | 45,265 | 42,193 |
| Fourth | 77,344 | 32,977 | 38,010 | 50,583 | 55,303 | 51,874 | 74,586 | 59,016R | 64,241 | 57,492 | 55,020 | 55,279 |
| **Year Total** | **346,342** | **186,082** | **111,269** | **146,056** | **179,037** | **157,972** | **239,555** | **287,390R** | **305,884** | **204,604** | **179,760** | **174,334** |

**Source: NLPGA**

## QUARTERLY REGULATOR SHIPMENTS
### 1973-84

| QUARTER | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| First | 527,971 | 282,770 | 328,038 | 510,865 | 707,029 | 828,603 | 1,089,877 | 1,048,099 | 806,859 | 1,110,123 | 1,340,771 | 1,186,421 |
| Second | 451,977 | 293,489 | 402,248 | 625,045 | 715,807 | 741,158 | 734,847 | 444,389 | 624,570 | 708,216 | 958,874 | 899,325 |
| Third | 353,307 | 312,676 | 312,834 | 493,122 | 334,550 | 463,217 | 424,764 | 334,575 | 482,716 | 247,797 | 522,424 | 467,400 |
| Fourth | 303,428 | 259,156 | 291,217 | 499,081 | 576,206 | 709,051 | 819,734 | 692,250 | 766,665 | 567,256 | 825,303 | 1,187,091 |
| **Year Total** | **1,636,683** | **1,148,091** | **1,334,337** | **2,128,113** | **2,333,592** | **2,742,029** | **3,069,222** | **2,519,313** | **2,680,810** | **2,633,392** | **3,647,372** | **3,740,237** |

**Source: NLPGA**

## QUARTERLY CYLINDER PRODUCTION (1)
### 1973-84

| QUARTER | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| First | 512,321 | 270,814 | 285,104 | 418,882 | 466,176 | 493,223 | 544,223R | 634,970R | 662,999R | 760,573 | 940,557 | 1,130,421 |
| Second | 505,581 | 331,861 | 399,605 | 438,318 | 518,409 | 533,156 | 530,418R | 312,208R | 719,166R | 876,929 | 804,376 | 1,094,296 |
| Third | 287,852 | 336,572 | 332,281 | 403,534 | 253,221 | 313,386 | 258,874R | 275,847R | 373,576R | 290,109 | 328,761 | 351,547 |
| Fourth | 278,320 | 218,903 | 277,884 | 343,404 | 322,592 | 398,451 | 336,813R | 403,971R | 480,051R | 427,530 | 506,714 | 704,982 |
| **Year Total** | **1,584,074** | **1,158,150** | **1,294,874** | **1,604,138** | **1,560,398** | **1,738,216** | **1,670,328R** | **1,626,996R** | **2,235,792R** | **2,355,141** | **2,580,408** | **3,281,246** |

*R - Revised*

*(1) Authorized cylinders for LP-gas usage are 3, 3A, 3AA, 3B, 3E, 4A, 4B, 4BA, 4B240ET, 4BW240, 4B240X, 4B240FLW and 4E. However, only the readily identifiable LP-gas grouping of 4B, 4BA and 4BW240 is listed above. 4E is listed starting with 1970.*

*(2) Figures for October were inadvertently omitted, and are included in the figures reported for the first quarter of 1970.*

*(3) First quarter 1970 contains October 1969.*

**Source: Compressed Gas Association and NLPGA**

## LP-GAS CYLINDER PRODUCTION, BY SIZE(1)
### 1969-84

| SIZE IN POUNDS (2) | 5 | 10 | 20 | 33 | 40 | 60 | 100 | 200 | 300 | 420 | All Other | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969 | 67,516 | 32,431 | 481,211 | 115,439 | 10,779 | 8,290 | 192,456 | 5,714 | 16,124 | * | 0 | 929,960(3) |
| 1970 | 124,231 | 40,823 | 492,911 | 132,277 | 8,777 | 11,139 | 194,371 | 12,399 | 29,670 | * | 35,310 | 1,081,908(4) |
| 1971 | 21,254R | 28,948R | 860,237R | 266,864R | 44,020R | 12,307R | 175,348R | 11,309R | 2,161R | 27,771R | 0 | 1,450,219R |
| 1972 | 29,619 | 31,264 | 858,836 | 374,450 | 52,870 | 12,888 | 138,994 | 9,683 | 1,699 | 49,015 | 3,118 | 1,562,436 |
| 1973 | 36,375 | 33,997 | 902,107 | 340,085 | 60,188 | 21,559 | 144,553 | 10,373 | 1,737 | 33,100 | 0 | 1,584,074 |
| 1974 | 23,862 | 44,911 | 624,856 | 248,271 | 40,828 | 24,443 | 107,184 | 9,483 | 2,065 | 19,926 | 12,321 | 1,158,150 |
| 1975 | 13,958 | 36,373 | 721,714 | 266,213R | 52,583 | 39,733 | 81,469 | 8,608 | 881R | 18,236R | 55,106R | 1,294,874 |
| 1976 | 13,264 | 32,532 | 953,719 | 400,971 | 47,382 | 33,344 | 69,543 | 12,782 | 52R | 18,990R | 21,558R | 1,604,137 |
| 1977 | 27,682 | 50,880 | 902,726 | 381,742 | 56,826 | 19,189 | 61,362 | 9,742 | 0 | 26,146R | 24,123R | 1,560,418 |
| 1978 | 24,251 | 48,761 | 1,070,162 | 381,466 | 60,223 | 21,787 | 74,026 | 9,457 | 0 | 20,356R | 27,718R | 1,738,207 |
| 1979 | 16,297R | 35,396R | 1,136,955R | 250,781R | 57,665R | 18,752R | 85,020R | 6,821R | 0 | 17,819R | 44,260R | 1,669,766R |
| 1980 | 13,882R | 16,723R | 1,194,210R | 208,247R | 46,849R | 14,600R | 69,404R | 6,423R | 572R | 25,149R | 30,937R | 1,626,996R |
| 1981 | 15,428R | 24,041R | 1,784,230R | 235,676R | 46,476R | 9,653R | 54,186R | 2,958R | 636R | 24,267R | 38,240R | 2,235,791R |
| 1982 | 14,133 | 19,718 | 1,945,972 | 226,141 | 44,401 | 10,288 | 44,248 | 3,981 | 0 | 21,790 | 24,469 | 2,355,141 |
| 1983 | 12,581 | 23,611 | 2,155,684 | 256,132 | 36,690 | 7,056 | 46,611 | 2,238 | 275 | 15,077 | 24,453 | 2,580,408 |
| 1984 | 23,775 | 52,011 | 2,741,136 | 293,753 | 55,609 | 13,085 | 72,493 | 3,199 | 178 | 21,121 | 4,886 | 3,281,246 |

*420 lb. cylinders included in "All Other".

## LP-GAS CYLINDER PRODUCTION, BY SIZE(1)
### 1957-67

| SIZE IN POUNDS | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967(5) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 362,312 | 295,661 | 357,015 | 353,175 | 249,478 | 367,030 | 300,757 | 413,836 | 423,483 | 387,801 | 207,380 |
| 60 | 17,270 | 8,826 | 11,148 | 8,130 | 9,891 | 11,688 | 14,650 | 11,755 | 12,822 | 7,076 | 6,860 |
| 100 | 486,387 | 390,091 | 448,627 | 534,091 | 362,553 | 341,278 | 189,415 | 155,285 | 235,071 | 239,336 | 139,050 |
| 150-200 | 14,211 | 10,258 | 8,353 | 6,519 | 7,427 | 9,631 | 8,635 | 7,947 | 15,205 | 10,428 | 6,290 |
| 300-420 | 21,945 | 21,039 | 19,734 | 13,321 | 21,371 | 23,257 | 20,499 | 23,123 | 19,519 | 8,568 | 18,280 |
| Unclassified | 483,606 | 50,746 | 119,810 | 163,215 | 100,947 | 159,453 | 129,885 | 202,649 | 184,349 | 223,461 | 153,640 |
| **TOTALS** | **1,385,731** | **776,621** | **964,687** | **1,078,451** | **751,667** | **912,337** | **663,841** | **814,595** | **890,449** | **876,670** | **531,500** |

*R - Revised*

*(1) Authorized cylinders for LP-Gas usage are 3, 3A, 3AA, 3B, 3E, 4A, 4B, 4BA, 4B240ET, 4BW240, 4B240X, 4B240FLW and 4E. However, only the readily identifiable LP-Gas grouping of 4B, 4BA, and 4BW240 is listed above. 4E is listed starting with 1970.*

*(2) For clarity and convenience, size classifications have been listed by the common cylinder sizes.*

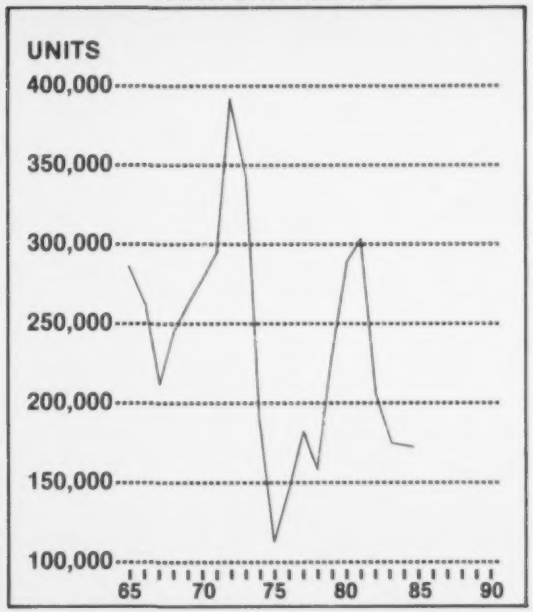
*(3) Figures for October were inadvertently omitted, and are included in the figures reported for the first quarter of 1970.*

*(4) 1970 figures contain October 1969 figures.*

*(5) Experienced reporting difficulties.*

**Source: Compressed Gas Association and NLPGA**

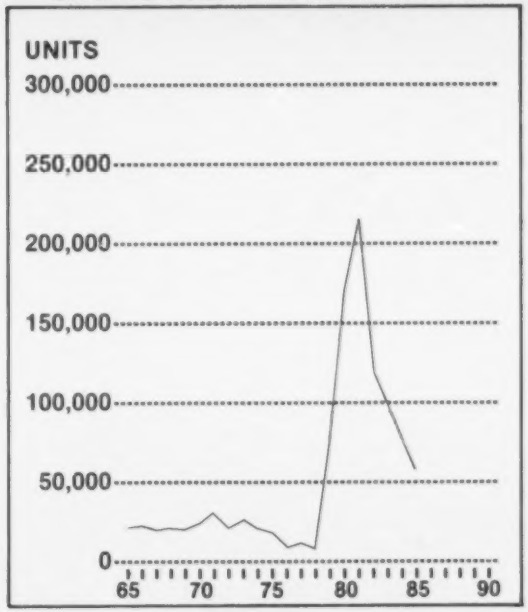
## TANK SHIPMENTS




### ANNUAL TANK SHIPMENTS 1959-84

| | |
|---|---|
| 1959 | 186,302 |
| 1960 | 141,017 |
| 1961 | 148,524 |
| 1962 | 218,308 |
| 1963 | 242,600 |
| 1964 | 269,278 |
| 1965 | 282,350 |
| 1966 | 258,369 |
| 1967 | 223,451 |
| 1968 | 248,036 |
| 1969 | 261,904 |
| 1970 | 277,121 |
| 1971 | 296,035 |
| 1972 | 389,125 |
| 1973 | 346,342 |
| 1974 | 186,082 |
| 1975 | 111,269 |
| 1976 | 146,056 |
| 1977 | 179,037 |
| 1978 | 157,972 |
| 1979 | 239,555 |
| 1980 | 287,390R |
| 1981 | 305,884 |
| 1982 | 204,604 |
| 1983 | 179,760 |
| 1984 | 174,334 |

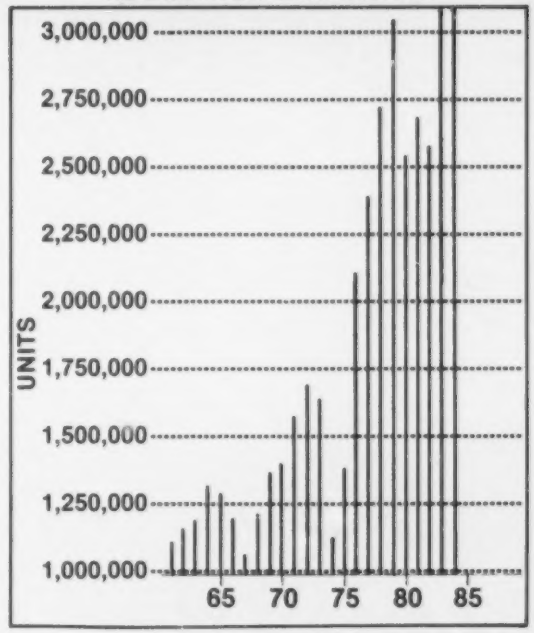
## ENGINE FUEL TANK SHIPMENTS




### ANNUAL ENGINE FUEL TANK SHIPMENTS 1965-84

| | |
|---|---|
| 1965 | 21,922 |
| 1966 | 22,815 |
| 1967 | 17,645 |
| 1968 | 20,185 |
| 1969 | 18,577 |
| 1970 | 24,988 |
| 1971 | 32,266 |
| 1972 | 23,284 |
| 1973 | 27,058 |
| 1974 | 22,881 |
| 1975 | 15,398 |
| 1976 | 9,692 |
| 1977 | 11,340 |
| 1978 | 7,389 |
| 1979 | 76,228 |
| 1980 | 172,136 |
| 1981 | 216,652 |
| 1982 | 117,026 |
| 1983 | 96,774 |
| 1984 | 54,773 |

## REGULATOR SHIPMENTS




### ANNUAL REGULATOR SHIPMENTS 1935-82

| | | | |
|---|---|---|---|
| 1937 | 113,916 | 1961 | 1,084,754 |
| 1938 | 110,860 | 1962 | 1,136,224 |
| 1939 | 225,510 | 1963 | 1,181,249 |
| 1940 | 340,404 | 1964 | 1,295,479 |
| 1941 | 368,244 | 1965 | 1,275,253 |
| 1942 | 114,855 | 1966 | 1,203,690 |
| 1943 | 40,097 | 1967 | 1,065,472 |
| 1944 | 106,060 | 1968 | 1,245,876 |
| 1945 | 259,002 | 1969 | 1,357,168 |
| 1946 | 1,012,045 | 1970 | 1,374,306 |
| 1947 | 1,006,064 | 1971 | 1,579,696 |
| 1948 | 869,418 | 1972 | 1,739,876 |
| 1949 | 783,711 | 1973 | 1,636,683 |
| 1950 | 1,259,653 | 1974 | 1,148,091 |
| 1951 | 1,146,071 | 1975 | 1,334,337 |
| 1952 | 909,289 | 1976 | 2,128,113 |
| 1953 | 949,534 | 1977 | 2,333,592 |
| 1954 | 906,178 | 1978 | 2,742,029 |
| 1955 | 1,175,253 | 1979 | 3,069,222 |
| 1956 | 1,095,063 | 1980 | 2,519,313 |
| 1957 | 921,416 | 1981 | 2,680,810 |
| 1958 | 989,560 | 1982 | 2,633,392 |
| 1959 | 1,050,230 | 1983 | 3,647,372 |
| 1960 | 898,609 | 1984 | 3,740,237 |

Source: NLPGA

## ANNUAL TANK SHIPMENTS, BY SIZES, 1955-84
### SIZE IN GALLONS (Water Capacity)

| YEAR | 0-399* | Engine Fuel | 400-599 | 600-1099 | Over 1099 | Transport & Delivery** 1000-12000 | TOTALS |
|---|---|---|---|---|---|---|---|
| 1955 | 122,726 | | 98,372 | 21,945 | 18,534 | — | 261,577 |
| 1956 | 139,433 | | 98,288 | 26,472 | 1,502 | — | 265,695 |
| 1957 | 117,975 | | 71,974 | 16,069 | 1,234 | — | 207,252 |
| 1958 | 83,321 | | 66,617 | 14,202 | 1,393 | — | 165,533 |
| 1959 | 102,779 | | 65,069 | 16,996 | 1,458 | — | 186,302 |
| 1960 | 80,387 | | 47,918 | 11,499 | 1,213 | — | 141,017 |
| 1961 | 85,918 | | 50,449 | 10,923 | 1,234 | — | 148,524 |
| 1962 | 125,209 | | 75,096 | 15,881 | 2,122 | — | 218,308 |
| 1963 | 126,041 | | 90,157 | 22,170 | 4,232 | — | 242,600 |
| 1964 | 141,746 | | 104,584 | 21,279 | 1,669 | — | 269,278 |
| 1965 | 113,285 | 21,922 | 116,462 | 28,306 | 1,451 | 924 | 282,350 |
| 1966 | 104,477 | 22,815 | 103,858 | 24,833 | 1,364 | 1,022 | 258,369 |
| 1967 | 92,881 | 17,645 | 88,819 | 21,671 | 1,298 | 1,136 | 223,450 |
| 1968 | 115,168 | 20,185 | 84,285 | 25,902 | 1,332 | 1,164 | 248,036 |
| 1969 | 120,431 | 18,577 | 93,905 | 26,570 | 887 | 1,534 | 261,904 |
| 1970 | 116,473 | 24,988 | 105,399 | 27,638 | 1,069 | 1,552 | 277,119 |
| 1971 | 122,032 | 32,266 | 118,996 | 29,305 | 1,080 | 1,356 | 305,035 |
| 1972 | 166,712 | 23,284 | 154,963 | 40,747 | 2,082 | 1,337 | 389,125 |
| 1973 | 138,337 | 27,058 | 114,319 | 60,913 | 4,301 | 1,414 | 346,342 |
| 1974 | 60,710 | 22,881 | 63,241 | 34,554 | 3,483 | 1,213 | 186,082 |
| 1975 | 40,375 | 15,398 | 36,362 | 16,310 | 2,054 | 770 | 111,269 |
| 1976 | 61,752 | 9,692 | 52,067 | 19,959 | 1,852 | 734 | 146,056 |
| 1977 | 81,897 | 11,340 | 53,121 | 27,636 | 3,653 | 1,390 | 179,037 |
| 1978 | 76,170 | 7,389 | 48,961 | 20,344 | 1,296 | 812 | 154,972 |
| 1979 | 84,986 | 76,228 | 55,773 | 20,922 | 1,048 | 598 | 239,555 |
| 1980 | 66,231 | 172,136 | 32,899 | 14,588 | 912 | 624 | 287,390 |
| 1981 | 51,608 | 216,652 | 24,139 | 12,069 | 1,006 | 410 | 305,884 |
| 1982 | 56,847 | 117,026 | 19,881 | 9,744 | 611 | 495 | 204,604 |
| 1983 | 59,966 | 96,774 | 16,057 | 6,132 | 468 | 363 | 179,760 |
| 1984 | 85,441 | 54,773 | 25,145 | 7,616 | 756 | 603 | 174,334 |

*Includes engine fuel tanks through 1964.*

**Not reported separately prior to 1965. See Page 33 for breakdown.*

**Source: NLPGA**

## CARBURETOR SALES*, BY APPLICATION, 1973-84

UNIT SALES

| APPLICATION | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Farm Tractors | 6,595 | 10,837 | 3,035 | 3,216 | 2,883 | 2,111 | 1,897 | 643 | 651 | 254 | 296 | 20,561 |
| Industrial Trucks | 97,729 | 92,481 | 56,869 | 65,369 | 80,110 | 89,959 | 139,817 | 113,259 | 100,007 | 72,070 | 61,818 | 99,418 |
| Automobiles | 20,539 | 29,789 | 9,178 | 8,591 | 8,881 | 9,440 | 17,117 | 34,339 | 26,562 | 13,921 | 13,529 | 39,185 |
| Trucks | 55,079 | 54,720 | 30,872 | 32,793 | 30,527 | 25,702 | 79,156 | 227,046 | 198,776 | 150,620 | 95,649 | 142,357 |
| Stationary Engines | 10,409 | 14,923 | 9,678 | 11,867 | 11,526 | 11,157 | 10,981 | 14,740 | 20,378 | 8,960 | 15,206 | 86,935 |
| Miscellaneous + | 1,460 | 1,305 | 1,159 | 375 | 300 | 200 | 305 | 440 | 5,934 | 8,659 | 225 | 238 |
| Buses | 100 | 240 | 380 | 1,346 | 1,458 | 795 | 457 | 508 | 2,199 | 2,460 | 1,535 | 1,418 |
| **TOTAL SALES** | **191,911** | **204,295** | **111,171** | **123,557** | **135,685** | **139,364** | **249,730** | **390,975** | **354,507** | **256,944** | **188,258** | **390,112** |

**Includes sales to original equipment manufacturers and after market sales for the purpose of conversion or replacement.*
*+ Includes non-categorized sales and truck refrigerators, sweepers, etc.*

**Source: NLPGA**

## LP-GAS TRANSPORT TRUCK PRODUCTION*
1965-84

| | |
|---|---|
| 1965 | 310 |
| 1966 | 357 |
| 1967 | 307 |
| 1968 | 218 |
| 1969 | 221 |
| 1970 | 312 |
| 1971 | 302 |
| 1972 | 326 |
| 1973 | 384 |
| 1974 | 492 |
| 1975 | 178 |
| 1976 | 323 |
| 1977 | 800(R) |
| 1978 | 431(R) |
| 1979 | 177 |
| 1980 | 188 |
| 1981 | 76 |
| 1982 | 60 |
| 1983 | 67 |
| 1984 | 70 |

**From 1965 to date tank truck data is for trucks ranging in size from 7,500 to 12,000 water gallon capacity.*
*(R) - Revised*

**Source: NLPGA and Bureau of the Census**

## SHIPMENTS OF LP-GAS DELIVERY AND TRANSPORT TRUCKS
1982-84

| SIZE | 1984 | 1983 | 1982 |
|---|---|---|---|
| 1,000 — 1,399 Gallons | 10 | 0 | 1 |
| 1,400 — 1,999 Gallons | 3 | 1 | 1 |
| 2,000 — 2,599 Gallons | 179 | 112 | 172 |
| 2,600 — 3,499 Gallons | 335 | 177 | 256 |
| 3,500 — 7,499 Gallons | 6 | 6 | 5 |
| 7,500 — 12,000 Gallons | 70 | 67 | 60 |
| **TOTAL** | **603** | **363** | **495** |

**Source: NLPGA**

## AGRICULTURAL CROP DRYER SHIPMENTS
### 1966-82

### GRAIN, HAY AND SEED DRYERS

| YEAR | Heated Types* | Unheated Air Types | Totals |
|---|---|---|---|
| 1966 | 14,904 | 2,535 | 17,439 |
| 1967 | 15,278 | — | 15,278 |
| 1968 | 17,318 | 925 | 18,243 |
| 1969 | 10,103 | 1,519 | 11,622 |
| 1970 | 7,153 | 2,019 | 9,172 |
| 1971 | 13,245 | 2,279 | 15,524 |
| 1972 | 16,456 | 3,358 | 19,814 |
| 1973 | 23,364 | 12,140 | 35,504 |
| 1974 | 34,781(R) | 15,936(R) | 50,717(R) |
| 1975 | 24,540(R) | 19,586(R) | 44,126(R) |
| 1976 | 29,904(R) | 24,997(R) | 54,901 |
| 1977 | 41,427(R) | 45,668(R) | 87,095(R) |
| 1978 | 39,951(R) | 59,912(R) | 99,863(R) |
| 1979 | 32,308(R) | 48,687(R) | 80,995(R) |
| 1980 | 24,301(R) | 26,162(R) | 50,463(R) |
| 1981 | 20,271 | 27,422 | 47,693 |
| 1982 | 27,348 | 37,263 | 64,611 |

**Consist of batch type, continuous flow, heated air and supplemental heater units estimated by manufacturers to be 90% to 95% LP-Gas fueled.*

**(R) Revised**

**Source: Bureau of the Census**

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## CLASSIFICATIONS FOR LP-GAS APPLICATIONS

**Residential & Commercial**
- Kitchen Ranges
- Barbecue Grills
- Water Heaters
- Clothes Dryers
- Central Heating Systems
- Central Air Conditioning Systems
- Space Heaters
- Patio and Yard Lamps
- Patio and Pool Deck Heaters
- Recreation: Camp Cookers, Heaters, Lights, Refrigeration
- Infra-Red Heaters
- Laundry Equipment
- Greenhouses
- Incinerators
- Roofing Kettles
- Street Pavers

**Internal Combustion**
- Industrial Lift Trucks
- Industrial Sweepers
- Stationary Engines
- Bus and Truck
- Automobile
- Portable Engines
- Refrigeration

**Chemical & Industrial**
- Raw Materials
- Solvents
- Standby Fuel
- Flame Cutters
- Metallurgical Furnaces
- Industrial Dryers
- Electric Generation
- Construction Heaters
- Refinery Fuel

**Utility Gas**
- Propane-Air Systems
- Propane Enrichment

**Synthetic Rubber**

**Secondary Recovery of Petroleum**

**Miscellaneous**
- Farm Tractors
- Farm Home Uses
- Crop Dryers
- Flame Cultivation
- Weed and Insect Control
- Tobacco Curers
- Poultry Brooders
- Stock Tank Heaters
- Pig Farrowers

*Energy Information Administration

## RESIDENTIAL GAS APPLIANCE SHIPMENTS*

1953-84

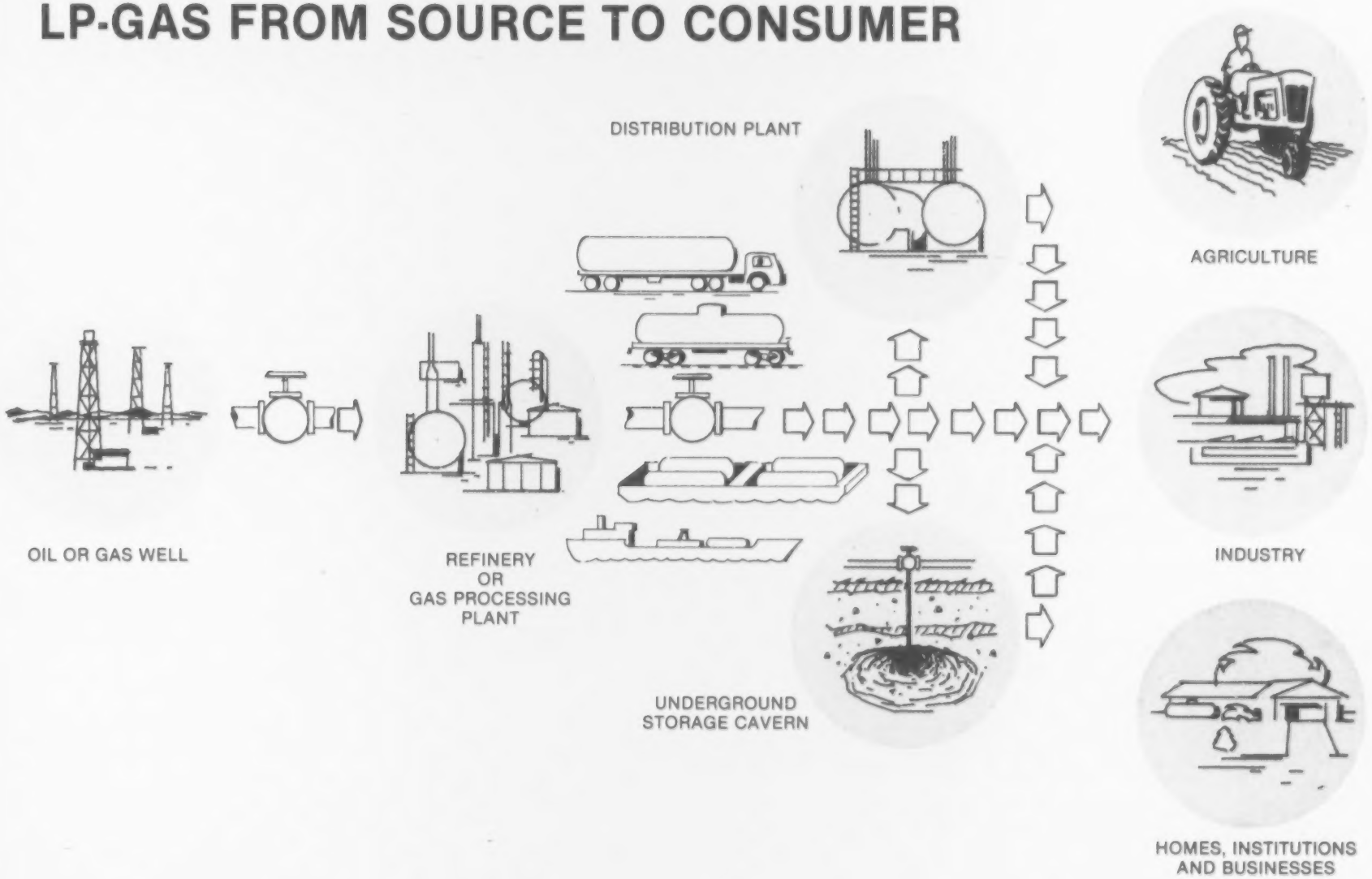
| | Domestic Ranges | Water Heaters | Warm Air Furnaces | Boilers | Conversion Burners | Direct Htg. Eqpt. | Floor Furnaces | Wall Furnaces | Clothes Dryer | Gas Grills |
|---|---|---|---|---|---|---|---|---|---|---|
| 1953 | 2,184,400 | 2,182,700 | 503,600 | 72,000 | 213,100 | 1,674,315 | 168,500 | 310,410 | 158,547 | |
| 1954 | 2,023,200 | 2,360,500 | 678,000 | 80,200 | 224,400 | 951,698 | 144,120 | 358,043 | 236,148 | |
| 1955 | 2,334,800 | 2,748,200 | 874,400 | 90,100 | 209,100 | 1,135,720 | 191,555 | 383,907 | 368,206 | |
| 1956 | 2,177,400 | 2,762,100 | 812,600 | 96,300 | 186,900 | 1,089,304 | 98,270 | 301,962 | 434,365** | |
| 1957 | 1,968,600 | 2,532,300 | 702,600 | 105,400 | 163,500 | 931,982 | 76,031 | 243,559 | 392,085 | |
| 1958 | 1,884,400 | 2,673,400 | 853,700 | 123,200 | 142,000 | 1,485,000 | 97,500 | 389,000 | 378,700 | |
| 1959 | 2,012,500 | 2,953,600 | 1,053,400 | 159,600 | 156,200 | 1,446,300 | 97,300 | 449,500 | 476,500 | |
| 1960 | 1,814,300 | 2,720,600 | 900,000 | 153,200 | 131,500 | 1,210,700 | 86,700 | 366,000 | 431,500 | |
| 1961 | 1,830,000 | 2,731,700 | 929,400 | 168,000 | 115,700 | 1,066,600 | 76,900 | 390,300 | 411,700 | |
| 1962 | 1,981,400 | 2,876,000 | 1,008,500 | 175,000 | 104,200 | 1,160,800 | 77,800 | 437,300 | 474,400 | |
| 1963 | 2,072,300 | 2,597,400 | 1,101,900 | 184,000 | 108,400 | 1,323,800 | 77,200 | 448,100 | 534,700 | |
| 1964 | 2,170,400 | 2,724,070 | 1,185,700 | 199,600 | 100,800 | 1,190,000 | 73,080 | 482,400 | 632,200 | |
| 1965 | 2,266,400 | 2,736,750 | 1,237,500 | 200,300 | 92,900 | 994,000 | 70,820 | 430,100 | 710,000 | |
| 1966 | 2,162,600 | 2,636,440 | 1,212,900 | 186,500 | 92,800 | 1,033,800 | 67,200 | 447,600 | 751,200 | |
| 1967 | 2,123,000 | 2,554,510 | 1,145,700 | 173,800 | 84,600 | 920,000 | 58,310 | 412,800 | 828,900 | |
| 1968 | 2,285,900 | 2,756,300 | 1,428,100 | 186,800 | 79,200 | 973,700 | 64,910 | 490,300 | 876,000 | |
| 1969 | 2,471,100 | 2,742,430 | 1,546,000 | 175,800 | 76,900 | 1,027,900 | 66,900 | 509,900 | 905,400 | |
| 1970 | 2,361,700 | 2,785,210 | 1,471,200 | 163,800 | 65,800 | 928,900 | 55,800 | 489,200 | 851,700 | |
| 1971 | 2,549,300 | 3,088,480 | 1,795,200 | 157,200 | 52,900 | 782,600 | 51,800 | 560,000 | 847,000 | |
| 1972 | 2,661,100 | 3,162,820 | 2,066,200 | 155,700 | 39,700 | 708,300 | 42,880 | 719,660 | 936,100 | |
| 1973 | 2,481,400 | 3,080,440 | 1,719,500 | 146,700 | 43,100 | 678,000 | 41,560 | 610,000 | 925,700 | |
| 1974 | 1,950,100 | 2,568,650 | 1,476,300 | 122,600 | 88,900 | 488,400 | 37,570 | 371,610 | 738,900 | |
| 1975 | 1,618,400 | 2,645,110 | 1,185,800 | 88,100 | 38,800 | 332,000 | 33,430 | 401,600 | 671,800 | |
| 1976 | 1,823,500 | 3,112,130 | 1,554,400 | 112,600 | 26,200 | 306,400 | 24,000 | 499,430 | 707,200 | |
| 1977 | 1,745,500 | 3,070,221 | 1,508,100 | 113,100 | N/A | 193,313 | 23,400 | 475,330 | 735,800 | 722,300 |
| 1978 | 1,794,200 | 2,921,052 | 1,636,100 | 125,900 | N/A | 174,900 | 18,070 | 513,900 | 757,000 | 910,000 |
| 1979 | 1,798,600 | 2,887,275 | 1,862,600 | 221,300 | N/A | 192,700 | 15,560 | 349,930 | 768,000 | 1,310,000 |
| 1980 | 1,538,500 | 2,818,263 | 1,445,700 | 293,300 | N/A | 221,933 | 12,240 | 284,690 | 682,200 | 1,235,000 |
| 1981 | 1,495,700 | 2,785,207 | 1,416,700 | 161,600 | N/A | 133,034 | 10,552 | 242,831 | 639,000 | 1,526,700 |
| 1982 | 1,367,500 | 3,040,947 | 1,155,600 | 147,600 | N/A | 181,704R | 18,746 | 132,640 | 584,200 | 1,765,960 |
| 1983 | 1,572,700 | 3,172,067 | 1,661,800 | 147,700 | N/A | 202,822 | 18,775 | 168,310 | 672,000 | 2,147,885 |
| 1984 | 1,732,100 | 3,502,053 | 1,849,200 | 179,870 | N/A | 255,842 | 20,825 | 179,310 | 753,600 | 2,637,190 |

N/A - Not Available
R - Revised
*LP-Gas and city gas combined.

**Includes combination washer-dryers in 1956 only.

**Source: Gas Appliance Manufacturers Association**

# LP-GAS FROM SOURCE TO CONSUMER



## REGIONAL OFFICES

**SOUTHEASTERN REGION**
Charles Brandon
6025-A Atlantic Blvd.
Norcross, GA 30071
404/662-5269

**WESTERN DISTRICT**
Keith Hanchett
1578 West 1700 South
Salt Lake City, UT 84104
801/973-0124

**NORTH CENTRAL REGION**
Dean D. Nolt
7515 Wayzata Boulevard
Minneapolis, Minnesota 55426
612/544-3339

**EAST CENTRAL REGION**
D.N. Myers
1235 Jefferson Davis Highway
Suite 702
Arlington, Virginia 22209
703/979-3560

**NATIONAL LP-GAS ASSOCIATION**
**1301 W. 22nd Street, Oak Brook, Illinois 60521**
**312/986-4800**